AZƏRBAYCAN RESPUBLİKASININ
NƏQLİYYAT, RABİTƏ VƏ YÜKSƏK TEXNOLOGİYALAR NAZİRLİYİ
DÖVLƏT MÜLKİ AVİASİYA AGENTLİYİ

Ə M R

№ 32

Bakı şəhəri "08" aprel 2021

"Azərbaycan Aviasiya Qaydaları - Hava gəmisinə texniki xidmət üzrə şəhadətnamənin verilməsi Qaydaları" (AAQ - Part 66) sənədinin təsdiq edilməsi haqqında

Hava gəmisinə texniki xidmət üzrə şəhadətnamənin verilməsinə, ona dəyişikliklərin edilməsinə və etibarlılıq müddətinin uzadılmasına dair tələbləri müəyyən etmək məqsədilə "Azərbaycan Aviasiya Qaydaları - Hava gəmisinə texniki xidmət üzrə şəhadətnamənin verilməsi Qaydaları"nın (AAQ - Part 66) 2-ci nəşri işlənib hazırlanıb.

Bu sənədin tətbiqini təmin etmək məqsədilə "Azərbaycan Respublikasının Nəqliyyat, Rabitə və Yüksək Texnologiyalar Nazirliyi yanında Dövlət Mülki Aviasiya Agentliyi haqqında Əsasnamə"nin 5.6.6-cı yarımbəndini rəhbər tutaraq, əmr edirəm:

1. "Azərbaycan Aviasiya Qaydaları - Hava gəmisinə texniki xidmət üzrə şəhadətnamənin verilməsi Qaydaları" (AAQ - Part 66) 16.04.2021-ci il tarixindən qüvvəyə minsin.
2. Hava gəmisinin istismara buraxılışını təsdiq edən personala bu Qaydalara uyğun şəhadətnamələrin rəsmiləşdirilməsi ilə bağlı tədbirlər görülsün.
3. Bu Qaydaların 1-ci nəşrinə uyğun verilmiş şəhadətnamələr 2-ci nəşrin tələblərinə uyğun rəsmiləşdirilmiş hesab edilsin.
4. Bu Qaydalara uyğun verilmiş şəhadətnaməyə malik olan hava gəmisinin istismara buraxılışını təsdiq edən personal bu Qaydaların 66.20(a) bəndində göstərilən imtiyazlara sahib hesab edilsin.
5. 7 iyul 2009-cu il tarixində EASA ilə bağlanmış İşçi Sazişin 6.1-ci bəndini nəzərə alaraq, EASA Part 147 üzrə təsdiq edilmiş təlim və imtahan təşkilatları tərəfindən verilmiş sertifikatlar müvafiq tanınma proseduru həyata keçirildikdən sonra tanınsın.

6. Komponentlərin istismara buraxılışını təsdiqləyən personala dair xüsusi tələblər bu Qaydalara daxil edilənədək həmin personala aid tələblər texniki xidmət təşkilatlarının müvafiq təlimatları ilə müəyyən edilsin.
7. Sənəddə göstərilən tələblərə uyğun olaraq bütün zəruri prosedurların tətbiqi təmin edilsin.
8. Sənədin Dövlət Mülki Aviasiya Agentliyinin (DMAA) və "Mülki Aviasiyada Uçuşların Təhlükəsizliyi üzrə Dövlət Müfəttişliyi"nin aidiyyəti mütəxəssisləri tərəfindən öyrənilməsi təmin edilsin.
9. Sənədin yenilənmiş versiyası DMAA-nın rəsmi internet saytında yerləşdirilsin.
10. Əmrin icrasına nəzarət direktorun müavini Hacıağa Hacıyevə həvalə edilsin.

Direktor **Arif Məmmədov**

APPROVED
by SCAA Director Order
№ 32 dd. 32 April 2021

AZERBAIJAN AVIATION RULES – AIRCRAFT MAINTENANCE LICENCE (AAR-66)

State Civil Aviation Agency of the Republic of Azerbaijan

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0.3. DISTRIBUTION CONTROL

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0.4. RECORD OF AMENDMENTS AND REVISIONS

Edition/ Revision №:	Date of Edition/ Revision:	Inserted by:	Para/ Page	Effective date:
Edition № 02	16.04.2021	PEL Dep.	All	16.04.2021

Edition: - *Release of a document having incorporated all previous revisions until the current version. New edition of a document will not show revised text in blue color. Current edition of a document shown on each page in footer.*

Revision: *- A change made to a part of document, where it is reflected with blue text or accompanied with a vertical line on right side of a document. Basic information on revisions (number and date) given in the List of effective Pages and indicated in header of affected page and in context itself.*

0.5. ABBREVIATION

AD	Airworthiness Directive
AMC	Acceptable Means of Compliance
AML	Aircraft Maintenanc Licence
BITE	Built-in Test Equipment
CAMO	Continuing Airworthiness Management Organisation
CDL	Configuration Deviation List
CMC	Central Maintenance Computer
ELT	Emergency Locator Transmitter
ICA	Instruction for Continued Airworthiness
ICAO	Internation Civil Aviation Organisation
IMA	Integrated Modular Avionics
MEL	Minimum Equipment List
MTOM	Maximum Take-off Mass
OJT	On-the Job Training
SB	Service bulletin
SCAA	State Civil Aviation Agency of the Republic of Azerbaijan
STC	Suppleental Type Certificate
TC	Type Certificiate

0.6. ADMINISTRATION AND CONTROL

This document is published as a book on A4-sized sheets. The PDF files will be locked and signed to prevent changes.

This document is regularly revised and amended. All personnel must be familiarized with all revisions done.

This document will be Amended and Revised in accordance with requirements of “Documentation and Control” procedure.

1. GENERAL

GM1 TO AAR-66

For the purpose of these Rules, the following definitions are used:

Acceptable Means of Compliance (AMC)	Standards and methods adopted and published by the SCAA to illustrate means by which compliance with the Azerbaijan Aviation Rules (AARs) is established.
Aeroplane	is a power-driven heavier-than-air aircraft, deriving its lift in flight chiefly from aerodynamic reactions on surfaces which remain fixed under given conditions of flight.
Aircraft	means any machine that can derive support in the atmosphere from the reactions of the air other than reactions of the air against the earth's surface
Certifying staff	means personnel responsible for the release of an aircraft or a component after maintenance
Competency	is a combination of individual skills, practical and theoretical knowledge, attitudes, training, and experience
Complex motor-powered aircraft	means: (i) an aeroplane: —with a maximum certificated take-off massexceeding 5 700 kg, or —certificated for a maximum passenger seatingconfiguration of more than nineteen, or —certificated for operation with a minimum crewof at least two pilots, or —equipped with (a) turbojet engine(s) or morethan one turboprop engine, or (ii) a helicopter certificated: —for a maximum take-off mass exceeding3 175 kg, or —for a maximum passenger seating configurationof more than nine, or —for operation with a minimum crew of at leasttwo pilots, or (iii) a tilt rotor aircraft.
Component	means any engine, propeller, part or appliance;
Continuing airworthiness	means all of the processes ensuring that, at any time in its operating life, the aircraft complies with the airworthiness requirements in force and is in a condition for safe operation;
Engine	is a unit used or intened to be used for aircraft propulsion. It consists of at least those components and equipment necessary for functioning and control, but excludes the propeller/rotors (if applicable).

Helicopter	is a heavier-than-air aircraft supported in flight chiefly by the reactions of the air on one or more power-driven rotors on substantially vertical axes.
Human factors	is anything that affects human performance, which means principles that apply to aeronautical activities, and which seek safe interface between the human and other system components by proper consideration of human performance.
Human performance	refers to human capabilities and limitations which have an impact on the safety and efficiency of aeronautical activities.
LA1 aircraft	means the following manned light aircraft: (i) an aeroplane with a maximum take-off mass (MTOM) of 1 200 kg or less that is not classified as complex motor-powered aircraft; (ii) a sailplane or powered sailplane of 1 200 kg MTOM or less; (iii) a balloon with a maximum design lifting gas or hot air volume of not more than 3 400 m^3 for hot air balloons, 1 050 m^3 for gas balloons, 300 m^3 for tethered gas balloons; (iv) an airship designed for not more than four occupants and a maximum design lifting gas or hot air volume of not more than 3 400 m^3 for hot air airships and 1 000 m^3 for gas airships;
LA2 aircraft	means the following manned Light Aircraft: (i) an aeroplane with a Maximum Take-off Mass (MTOM) of 2 000 kg or less that is not classified as complex motor-powered aircraft; (ii) a sailplane or powered sailplane of 2 000 kg MTOM or less; (iii) a balloon; (iv) a hot air ship; (v) a gas airship complying with all of the following characteristics: — 3 % maximum static heaviness, — non-vectored thrust (except reverse thrust), — conventional and simple design of structure, control system and ballonet system, and — non-power assisted controls; (vi) a Very Light Rotorcraft;
Maintenance	means any one or combination of the following activities: overhaul, repair, inspection, replacement, modification or defect rectification of an aircraft or component, with the exception of pre-flight inspection;
Powerplant	is the system consisting of all the engines, drive system components (if applicable), and propellers (if installed), their

	accessories, ancillary parts, and fuel and oil systems installed on an aircraft but excluding the rotors for a helicopter.

Repair	is the restoration of an aircraft, engine, propeller or associated part to an airworthy condition in accordance with the appropriate airworthiness requirements after it has been damaged or subjected to wear.
Safety Culture	is an enduring set of values, norms, attitudes, and practices within an organisation concerned with minimising the exposure of the workforce and the general public to dangerous or hazardous conditions. In a positive safety culture, a shared concern for, commitment to, and accountability for safety is promoted.

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2. TECHNICAL REQUIREMENTS

66.1 SCOPE

These Rules define the aircraft maintenance licence and establish the requirements for application, issue and continuation of its validity.

66.3 LICENCE CATEGORIES AND SUBCATEGORIES

Aircraft maintenance licences include the following categories and, where applicable, subcategories and system ratings:

(a) Category A, divided into the following subcategories:

- A1 Aeroplanes Turbine;
- A2 Aeroplanes Piston;
- A3 Helicopters Turbine;
- A4 Helicopters Piston.

(b) Category B1, divided into the following subcategories:

- B1.1 Aeroplanes Turbine;
- B1.2 Aeroplanes Piston;
- B1.3 Helicopters Turbine;
- B1.4 Helicopters Piston.

(c) Category B2

The B2 licence is applicable to all aircraft.

(d) Category B2L

The B2L licence is applicable to all aircraft other than those in Group 1 as set out in Point 66.5(1) and is divided into the following 'system ratings':

- communication/navigation (com/nav),
- instruments,
- autoflight,
- surveillance,
- airframe systems.

A B2L licence shall contain, as a minimum, one system rating.

(e) Category B3

The B3 licence is applicable to piston-engine non-pressurised aeroplanes of 2 000 kg Maximum Take-off Mass (MTOM) and below.

(f) Category L, divided into the following subcategories:

- L1C: composite sailplanes,
- L1: sailplanes,
- L2C: composite powered sailplanes and composite LA1 aeroplanes,
- L2: powered sailplanes and LA1 aeroplanes,
- L3H: hot-air balloons,
- L3G: gas balloons,
- L4H: hot-air airships,
- L4G: LA2 gas airships,

— L5: gas airships other than LA2.

(g) Category C

The C licence is applicable to aeroplanes and helicopters.

GM TO 66.3

'LA1 aeroplanes' refers to those aeroplanes which meet the definition of 'LA1 aircraft'.

'LA2 gas airships' refers to those gas airships which meet the definition of 'LA2 aircraft'.

'Gas airships other than LA2' refers to those gas airships which do not meet at least one condition of the definition of 'LA2 aircraft'.

NOTE: The 'LA2 aircraft' category includes all 'LA1 aircraft'.

The term 'powered sailplane' includes:

— those powered sailplanes which may take off solely by means of their own power (self-launching sailplanes); and

— self-sustaining powered sailplanes; and

— touring motor gliders (TMGs).

While the L1C subcategory only includes composite sailplanes, the L1 subcategory includes all sailplanes (composite, metal and wood).

While the L2C subcategory only includes composite powered sailplanes and composite LA1 aeroplanes, the L2 subcategory includes all powered sailplanes and LA1 aeroplanes (composite, metal and wood).

In the case of maintenance of mixed balloons (combination of gas and hot air), it is required to hold both L3G and L3H subcategories.

For the B2L licence, a 'system rating' is a rating which gives privileges to release maintenance on the aircraft systems covered by the 'system rating' and electrical systems.

The sentence 'shall contain, as a minimum, one system rating' refers to the fact that the application for a B2L licence shall be made for any of the system ratings or any combination of the system ratings specified in point 66.3.

There is no specific order in which the system ratings shall be applied for. Any combination of system ratings is possible.

The description of systems covered by the different system ratings is provided in Appendix I 'Basic Knowledge Requirements' under paragraph '2. Modularisation', subparagraph related to 'Categories B2 and B2L'.

66.5 AIRCRAFT GROUPS

For the purpose of ratings on aircraft maintenance licences, aircraft shall be classified into the following groups:

(1) Group 1: complex motor-powered aircraft, helicopters with multiple engines, aeroplanes with maximum certified operating altitude exceeding FL290, aircraft equipped with fly-by-wire systems, gas airships other than LA2 and other aircraft requiring an aircraft type rating when defined as such by the SCAA.

The SCAA may decide to classify into Group 2, Group 3 or Group 4, as appropriate, an aircraft which meets the conditions set out in the first subparagraph, if it considers that the lower complexity of the particular aircraft justifies so.

(2) Group 2: aircraft other than those in Group 1 belonging to the following subgroups:

(i) subgroup 2a:

— single turboprop engine aeroplanes,

— those turbojet and multiple-turboprop aeroplanes classified by the SCAA in this subgroup because of their lower complexity.

(ii) subgroup 2b:

— single turbine engine helicopters,

— those multiple turbine engine helicopters classified by the SCAA in this subgroup because of their lower complexity.

(iii) subgroup 2c:

— single piston engine helicopters,

— those multiple piston engine helicopters classified by the SCAA in this subgroup because of their lower complexity.

(3) Group 3: piston engine aeroplanes other than those in Group 1.

(4) Group 4: sailplanes, powered sailplanes, balloons and airships, other than those in Group 1.

GM TO 66.5

The following table summarises the applicability of categories/subcategories of AAR-66 licences versus the groups/subgroups of aircraft:

Category/subcategory Groups	A, B1 and C	B2	B2L	B3	L				
					L1C and L1	L2C and L2	L3H and L3G	L4H and L4G	L5
1 — Complex motor-powered aircraft — Multi-engine helicopters — Aeroplanes above FL290 — Aircraft with fly-by-wire systems — Any other aircraft when defined by the SCAA	X	X							
1 — Gas airships other than LA2		X							X
2 2a: Single turboprop aeroplanes 2b: Single turbine helicopters 2c: Single piston helicopters	X	X	X						
3 — Piston engine aeroplanes	X	X	X						
3 — Piston engine aeroplanes (non-pressurised of 2 000 kg MTOM and below)	X	X	X	X					
3 — LA1 piston engine aeroplanes	X	X	X	X		X			
4 — Sailplanes — Powered sailplanes — Balloons — Airships not in Group 1		X X X X	X X X X		X	X X	X	X	X

66.10 APPLICATION

(a) An application for an aircraft maintenance licence or change to such licence shall be made on an SCAA Form 19 (see Appendix V) in a manner established by the SCAA and submitted thereto.

(b) The applicant for amendment/renewal of an aircraft maintenance licence shall submit his/her current original aircraft maintenance licence to the SCAA together with the SCAA Form 19.

(c) Each application shall be supported by documentation to demonstrate compliance with the applicable theoretical knowledge, practical training and experience requirements at the time of application.

(d) The organisation requesting the grant or amendment to a licence is responsible for the review of the application before making a recommendation to the SCAA.

AMC TO 66.10

1. Maintenance experience should be written up in a manner that the reader has a reasonable understanding of where, when and what maintenance constitutes the experience. A task by task account is not necessary but at the same time a bland statement 'X years maintenance experience completed' is not acceptable. A log book of maintenance experience is desirable and the SCAA requires such log book to be kept. It is acceptable to cross refer in the SCAA Form 19 to other documents containing information on maintenance.

2. Applicants claiming the maximum reduction in 66.30(a) total experience based upon having successfully completed 147.200 approved basic training should include the AAR-147 certificate of recognition for approved basic training.

3. Applicants claiming reduction in 66.30(a) total experience based upon having successfully completed technical training in an organisation or institute recognised by the SCAA as a competent organisation or institute, should include the relevant certificate of successful completion of training.

GM TO 66.10(A)

When an application is made for a licence in the B2L category, the applicant should specify on the SCAA Form 19:

— the system rating or the combination of system ratings the applicant applies for; and

— the aircraft rating,

considering that according to point 66.45(e), a B2L licence endorsed with full subgroup 2b can be endorsed also with full subgroup 2c.

When applying for the addition of a system rating on a B2L licence, the applicant should provide together with the application, the demonstration of compliance with the experience requirements related to the system the applicant applies for.

When a B2L licence holder applies for the extension of a B2L licence to add a new system rating, he/she needs to demonstrate the practical experience required by point 66.30(a)(3) for the system rating but also the practical experience required by point 66.45(e) and (f) in case the aircraft group is different.

When a B2L licence holder applies for the change of his/her B2L licence to the B2 category, he/she needs only to:

— demonstrate by examination the differences between the basic knowledge corresponding to the B2L licence held and the basic knowledge of the B2 licence, as described in Appendix I; and

— demonstrate the additional experience described in Appendix IV.

When an applicant applies for the extension of his/her B2L licence to a B2 licence and he/she meets the relevant requirements, the B2L licence is replaced by the B2 licence.

66.15 ELIGIBILITY

An applicant for an aircraft maintenance licence shall be at least 18 years of age.

66.20 PRIVILEGES

(a) The following privileges shall apply:

1. A category A aircraft maintenance licence permits the holder to issue certificates of release to service following minor scheduled line maintenance and simple defect rectification within the limits of tasks specifically endorsed on the certification authorisation referred to in point 145.35 of AAR-145. The certification privileges shall be restricted to work that the licence holder has personally performed in the maintenance organisation that issued the certification authorisation.

2. A category B1 aircraft maintenance licence shall permit the holder to issue certificates of release to service and to act as B1 support staff following:

   — maintenance performed on aircraft structure, powerplant and mechanical and electrical systems,

   — work on avionic systems requiring only simple tests to prove their serviceability and not requiring troubleshooting.

   Category B1 includes the corresponding A subcategory.

3. A category B2 aircraft maintenance licence shall permit the holder:

   (i) to issue certificates of release to service and to act as B2 support staff for following:

      — maintenance performed on avionic and electrical systems, and

      — electrical and avionics tasks within powerplant and mechanical systems, requiring only simple tests to prove their serviceability; and

   (ii) to issue certificates of release to service following minor scheduled line maintenance and simple defect rectification within the limits of tasks specifically endorsed on the certification authorisation referred to in point 145.35 of AAR-145. This certification privilege shall be restricted to work that the licence holder has personally performed in the maintenance organisation which issued the certification authorisation and limited to the ratings already endorsed in the B2 licence.

   The category B2 licence does not include any A subcategory.

4. A category B2L aircraft maintenance licence shall permit the holder to issue certificates of release to service and to act as B2L support staff for the following:

   — maintenance performed on electrical systems;

   — maintenance performed on avionics systems within the limits of the system ratings specifically endorsed on the licence, and

   — when holding the ‘airframe system’ rating, performance of electrical and avionics tasks within power plant and mechanical systems, requiring only simple tests to prove their serviceability.

5. A category B3 aircraft maintenance licence shall permit the holder to issue certificates of release to service and to act as B3 support staff for the following:

   — maintenance performed on aeroplane structure, power plant and mechanical and electrical systems; and

   — work on avionics systems requiring only simple tests to prove their serviceability and not requiring troubleshooting.

6. A category L aircraft maintenance licence shall permit the holder to issue certificates of release to service and to act as L support staff for the following:

   — maintenance performed on aircraft structure, power plant and mechanical and electrical systems;

   — work on radio, Emergency Locator Transmitters (ELT) and transponder systems; and

   — work on other avionics systems requiring simple tests to prove their serviceability.

   Subcategory L2 includes subcategory L1. Any limitation to subcategory L2 in accordance with point 66.45(h) becomes also applicable to subcategory L1.

   Subcategory L2C includes subcategory L1C.

7. A category C aircraft maintenance licence shall permit the holder to issue certificates of release to service following base maintenance of the aircraft. The privileges apply to the aircraft in its entirety.

(b) The holder of an aircraft maintenance licence may not exercise its privileges unless:

1. in compliance with the applicable requirements of AAR-M and AAR-145; and
2. in the preceding 2-year period he/she has, either had 6 months of maintenance experience in accordance with the privileges granted by the aircraft maintenance licence or, met the provision for the issue of the appropriate privileges; and
3. he/she has the adequate competence to certify maintenance on the corresponding aircraft; and
4. he/she is able to read, write and communicate to an understandable level in the language(s) in which the technical documentation and procedures necessary to support the issue of the certificate of release to service are written.

GM TO 66.20(A)

1. The following definitions apply:

Electrical system means the aircraft electrical power supply source, plus the distribution system to the different components contained in the aircraft and relevant connectors. Lighting systems are also included in this definition. When working on cables and connectors which are part of these electrical systems, the following typical practices are included in the privileges:

— Continuity, insulation and bonding techniques and testing;

— Crimping and testing of crimped joints;

— Connector pin removal and insertion;

— Wiring protection techniques.

Avionics system means an aircraft system that transfers, processes, displays or stores analogue or digital data using data lines, data buses, coaxial cables, wireless or other data transmission medium, and includes the system's components and connectors. Examples of avionics systems include the following:

— Autoflight;

— Communication, Radar and Navigation;

— Instruments (see NOTE below);

— In Flight Entertainment Systems;

— Integrated Modular Avionics (IMA);

— On-Board Maintenance Systems;

— Information Systems;

— Fly by Wire Systems (related to ATA27 ‘Flight Controls’);

— Fibre Optic Control Systems.

NOTE: Instruments are formally included within the privileges of the B2 and B2L with system rating ‘instruments’. However, maintenance on electromechanical and pitot-static components may also be released by a B1, B3 or L licence holder.

Simple test means a test described in approved maintenance data and meeting all the following criteria:

— The serviceability of the system can be verified using aircraft controls, switches, Built-in Test Equipment (BITE), Central Maintenance Computer (CMC) or external test equipment not involving special training.

— The outcome of the test is a unique go – no go indication or parameter, which can be a single value or a value within an interval tolerance. No interpretation of the test result or interdependence of different values is allowed.

— The test does not involve more than 10 actions as described in the approved maintenance data (not including those required to configure the aircraft prior to the test, i.e. jacking, flaps down, etc, or to return the aircraft to its initial configuration). Pushing a control, switch or button, and reading the corresponding outcome may be considered as a single step even if the maintenance data shows them separated.

Troubleshooting means the procedures and actions necessary, using approved maintenance data, in order to identify the root cause of a defect or malfunction. It may include the use of BITE or external test equipment.

Line maintenance means any maintenance that is carried out before flight to ensure that the aircraft is fit for the intended flight. It may include:

— trouble shooting;

— defect rectification;

— component replacement with use of external test equipment, if required. Component replacement may include components such as engines and propellers;

— scheduled maintenance and/or checks including visual inspections that will detect obvious unsatisfactory conditions/discrepancies but do not require extensive in depth inspection. It may also include internal structure, systems and powerplant items which are visible through quick opening access panels/doors;

— minor repairs and modifications which do not require extensive disassembly and can be accomplished by simple means;

— for temporary or occasional cases (Airworthiness Directives, hereinafter AD; service bulletins, hereinafter SB) the quality manager may accept base maintenance tasks to be performed by a line maintenance organisation provided all requirements are fulfilled. The SCAA will prescribe the conditions under which these tasks may be performed.

Base Maintenance means any task falling outside the criteria that are given above for Line Maintenance.

NOTE: Aircraft maintained in accordance with 'progressive' type programmes need to be individually assessed in relation to this paragraph. In principle, the decision to allow some 'progressive' checks to be carried out is determined by the assessment that all tasks within the particular check can be carried out safely to the required standards at the designated line maintenance station.

2. The category B3 licence does not include any A subcategory. Nevertheless, this does not prevent the B3 licence holder from releasing maintenance tasks typical of the A1.2 subcategory for piston-engine non-pressurized aeroplanes of 2 000 kg MTOM and below, within the limitations contained in the B3 licence.

3. The B1.2 and B3 licences do not include any L subcategory. Nevertheless, the holder of a B1.2 or B3 licence with the appropriate ratings is entitled to receive, upon application, licences in the L1 and L2 subcategories under the conditions prescribed by the SCAA.

4. The privileges of the B2 licence with given aircraft ratings include the privileges of the B2L licence for all the system ratings for the same aircraft ratings. Nevertheless, the holder of a B2 licence with given aircraft ratings may apply for a B2L licence in order to include a different aircraft rating if the applicant only wants to demonstrate compliance with the experience requirements for certain system ratings.

5. The category C licence permits certification of scheduled base maintenance by the issue of a single certificate of release to service for the complete aircraft after the completion of all such maintenance. The basis for this certification is that the maintenance has been carried out by competent mechanics, and category B1, B2, B2L, B3 and L support staff, as appropriate, have signed for the maintenance tasks under their respective specialisation. The principal function of the category C certifying staff is to ensure that all required maintenance has been called up and signed off by the category B1, B2, B2L, B3 and L support staff, as appropriate, before issue of the certificate of release to service. Only category C personnel who also hold category B1, B2, B2L, B3 or L qualifications may perform both roles in base maintenance.

AMC TO 66.20(A)(4)

'Within the limits of the system ratings specifically endorsed on the licence' refers to the fact that the privileges of the licence holder are limited:

— to the group/subgroup of aircraft endorsed on the licence, but also

— to the system rating(s) endorsed.

When an applicant wishes to get the privilege to issue certificates of release to service and to act as support staff for electrical and avionics tasks within powerplant and mechanical systems, he/she should apply for the rating 'airframe system' on the B2L licence. The reason is that the 'airframe systems' rating is the only rating which covers completely the electrical and avionics tasks of the powerplant and mechanical systems of the aircraft.

AMC TO 66.20(B)(2)

The 6 months of maintenance experience in the preceding 2-year period should be understood as consisting of two elements, duration and nature of the experience. The minimum to meet the requirements for these elements may vary depending on the size and complexity of the aircraft and type of operation and maintenance.

1. Duration:

Within an approved maintenance organisation:

— 6 months of continuous employment within the same organisation; or

— 6 months split up into different blocks, employed within the same or in different organisations.

The 6-month period can be replaced by 100 days of maintenance experience in accordance with the privileges, whether they have been performed within an approved organisation or as independent certifying staff according to point M.801(b)1 of AAR-M, or as a combination thereof.

When a licence holder maintains and releases aircraft in accordance with point M.801(b)1 of AAR-M, in certain circumstances this number of days may even be reduced by 50% when agreed in advance by the SCAA. These circumstances consider the cases where the licence holder happens to be the owner of an aircraft and carries out maintenance on his/her own aircraft, or where a licence holder maintains an aircraft operated for low utilisation, that does not allow the licence holder to accumulate the required experience. This reduction should not be combined with the 20% reduction permitted when carrying out technical support, or maintenance planning, continuing airworthiness management or engineering activities. To avoid a too long period without experience, the working days should be spread over the intended 6-month period.

2. Nature of the experience:

Depending on the category of the aircraft maintenance licence, the following activities are considered relevant for maintenance experience:

— Servicing;

— Inspection;

— Operational and functional testing;

— Troubleshooting;

— Repairing;

— Modifying;

— Changing component;

— Supervising these activities;

— Releasing aircraft to service.

For category A licence holders, the experience should include exercising the privileges, by means of performing tasks related to the authorization on at least one aircraft type for each licence subcategory. This means tasks as mentioned in AMC to 145.30(g) of AAR-145, including servicing, component changes and simple defect rectifications.

For category B1, B2, B2L, B3 and L, for every aircraft included in the authorisation the experience should be on that particular aircraft or on a similar aircraft within the same licence (sub)category. Two aircraft can be considered to be similar when they have similar technology, construction and comparable systems, which means equally equipped with the following (as applicable to the licence category):

— Propulsion systems (piston, turboprop, turbofan, turboshaft, jet-engine or push propellers); and

— Flight control systems (only mechanical controls, hydro-mechanically powered controls or electro-mechanically powered controls); and

— Avionic systems (analogue systems or digital systems); and

— Structure (manufactured of metal, composite or wood).

For licences endorsed with (sub)group ratings:

— In the case of a B1 licence endorsed with (sub)group ratings (either manufacturer sub-group or full (sub)group) as defined in point 66.45, the holder should show experience on at least one aircraft type per (sub)group and per aircraft structure (metal, composite, wood).

— In the case of a B2 or B2L licence endorsed with (sub)group ratings (either manufacturer subgroup or full (sub)group) as defined in point 66.45, the holder should show experience on at least one aircraft type per (sub)group.

— In the case of a B3 licence endorsed with the rating 'piston-engine non-pressurised aeroplanes of 2000 kg MTOM and below' as defined in point 66.45, the holder should show experience on at least one aircraft type per aircraft structure (metal, metal-tubing with fabric, composite, wooden).

For category C, the experience should cover at least one of the aircraft types endorsed on the licence.

For a combination of categories, the experience should include some activities of the nature shown in paragraph 2 in each category.

A maximum of 20% of the experience duration required may be replaced by the following relevant activities on an aircraft type of similar technology, construction and with comparable systems:

— Aircraft maintenance related training as an instructor/assessor or as a student;

— Maintenance technical support/engineering;

— Maintenance management/planning.

The experience should be documented in an individual log book or in any other recording system (which may be an automated one) containing the following data:

— Date;

— Aircraft type;

— Aircraft identification i.e. registration;

— ATA chapter;

— Operation performed e.g. 100 FH check, MLG wheel change, engine oil check and complement, SB embodiment, trouble shooting, structural repair, STC embodiment, etc.;

— In the particular case of AAR-145 organisations, the type of maintenance i.e. base, line;

— Type of activity i.e. perform, supervise, release;

— Subcategory used (A1, A2, A3, A4, B1.1, B1.2, B1.3, B1.4, B2, B2L, B3, C or L1, L1C, L2, L2C, L3G, L3H, L4G, L4H, L5);

— Duration in days or partial-days.

GM TO 66.20(B)(2)

The sentence 'met the provision for the issue of the appropriate privileges' included in point 66.20(b)(2) means that during the previous 2 years the person has met all the requirements for the endorsement of the corresponding aircraft rating (for example, in the case of aircraft in Group 1, theoretical plus practical element plus, if applicable, on-the-job training). This supersedes the

need for 6 months of experience for the first 2 years. However, the requirement of 6 months of experience in the preceding 2 years will need to be met after the second year.

AMC TO 66.20(B)(3)

The wording 'has the adequate competence to certify maintenance on the corresponding aircraft' means that the licence holder and, if applicable, the organisation where he/she is contracted/employed, should ensure that he/she has acquired the appropriate knowledge, skills, attitude and experience to release the aircraft being maintained. This is essential because some systems and technology present in the particular aircraft being maintained may not have been covered by the training/examination/experience required to obtain the licence and ratings.

This is typically the case, among others, in the following situations:

— Type ratings which have been endorsed on a licence in accordance with Appendix I to AMC to AAR-66 'List of Type Ratings' after attending type training/on-the-job training which did not cover all the models/variants included in such rating. For example, a licence endorsed with the rating Airbus A318/A319/A320/A321 (CFM56) after attending type training/on-the-job training covering only the Airbus 320 (CFM56).

— Type ratings which have been endorsed on a licence in accordance with Appendix I to AMC to AAR-66 'List of Type Ratings' after a new variant has been added to the rating in Appendix I, without performing difference training. For example, a licence endorsed with the rating Boeing 737-600/700/800/900 for a person who already had the rating Boeing 737-600/700/800, without performing any difference training for the 737-900.

— Work being carried out on a model/variant for which the technical design and maintenance techniques have significantly evolved from the original model used in the type training/on-the-job training.

— Specific technology and options selected by each customer which may not have been covered by the type training/on-the-job training.

— Changes in the basic knowledge requirements of Appendix I to AAR-66 not requiring re-examination of existing licence holders (grandfathered privileges).

— The endorsement of group/subgroup ratings based on experience on a representative number of tasks/aircraft or based on type training/examination on a representative number of aircraft.

— Persons meeting the requirements of 6 months of experience every 2 years only on certain similar aircraft types as allowed by AMC to 66.20(b)(2).

Additional information is provided in AMC to 145.35(a) of AAR-145.

GM TO 66.20(B)(4)

1. Holders of an AAR-66 aircraft maintenance licence may not exercise certification privileges unless they have a general knowledge of the language used within the maintenance environment including knowledge of common aeronautical terms in the language. The level of knowledge should be such that the licence holder is able to:

    — read and understand the instructions and technical manuals used for the performance of maintenance;

    — make written technical entries and any maintenance documentation entries, which can be understood by those with whom they are normally required to communicate;

    — read and understand the maintenance organisation procedures;

    — communicate at such a level as to prevent any misunderstanding when exercising certification privileges.

2. In all cases, the level of understanding should be compatible with the level of certification privileges exercised.

66.25 BASIC KNOWLEDGE REQUIREMENTS

(a) For licences other than categories B2L and L, an applicant for an aircraft maintenance licence, or for the addition of a category or subcategory to such a licence, shall demonstrate by examination a level of knowledge of the appropriate subject modules in accordance with Appendix I to AAR-66. The examination shall comply with the standard set out in Appendix II to AAR-66 and shall be conducted either by a training organisation appropriately approved in accordance with AAR-147, or by the SCAA.

(b) An applicant for an aircraft maintenance licence in category L within a given subcategory, or for the addition of a different subcategory, shall demonstrate by examination a level of knowledge of the appropriate subject modules in accordance with Appendix VII to AAR-66. The examination shall comply with the standard set out in Appendix VIII to AAR-66 and shall be conducted by a training organisation appropriately approved in accordance with AAR-147, by the SCAA or as agreed by the SCAA.

The holder of an aircraft maintenance licence in subcategory B1.2 or category B3 is deemed to meet the basic knowledge requirements for a licence in subcategories L1C, L1, L2C and L2.

The basic knowledge requirements for subcategory L4H include the basic knowledge requirements for subcategory L3H.

The basic knowledge requirements for subcategory L4G include the basic knowledge requirements for subcategory L3G.

(c) An applicant for an aircraft maintenance licence in category B2L for a particular 'system rating', or for the addition of another 'system rating', shall demonstrate by examination a level of knowledge of the appropriate subject modules in accordance with Appendix I to AAR-66. The examination shall comply with the standard set out in Appendix II to AAR-66 and shall be conducted either by a training organisation appropriately approved in accordance with AAR-147, or by the SCAA.

(d) The training courses and examinations shall have been passed within 10 years prior to the application for an aircraft maintenance licence or the addition of a category or subcategory to such a licence. Should this not be the case, examination credits may be obtained in accordance with point (e).

(e) The applicant may apply to the SCAA for full or partial examination credits for the basic knowledge requirements for:

(i) basic knowledge examinations that do not meet the requirement laid down in point (d);

(ii) any other technical qualification considered by the SCAA to be equivalent to the knowledge standard of AAR-66.

Credits may only be granted based on a credit report developed by the organisation where such technical qualification was obtained.

(f) Credits expire 10 years after they were granted to the applicant by the SCAA. The applicant may apply for new credits after expiration.

AMC TO 66.25(E)

1. The credit report should include a comparison between the following:

(i) the modules. submodules, subjects and knowledge levels contained in Appendices I or VII to AAR-66, as applicable;

(ii) the syllabus of the technical qualification concerned, relevant to the particular category being sought.

This comparison should state whether compliance has been demonstrated and contain the justification for each statement.

2. No credits can be granted unless there is a statement of compliance for each module and submodule, indicating where the equivalent standard can be found in the technical qualification.

3. The organisation mentioned in AMC to 66.25(e) shall notify the SCAA if any information provided to the SCAA at the time of the credit report preparation has changed.

GM TO 66.25(A)

The levels of knowledge for each licence (sub)category are directly related to the complexity of the certifications related to the corresponding licence (sub)category, which means that category A should demonstrate a limited but adequate level of knowledge, whereas category B1, B2, B2L and B3 should demonstrate a complete level of knowledge in the appropriate subject modules.

GM TO 66.25(B)

'Or as agreed by the SCAA' refers to the examination that is conducted by an organisation under a formal agreement (and oversight) of the SCAA.

66.30 BASIC EXPERIENCE REQUIREMENTS

(a) An applicant for an aircraft maintenance licence shall have acquired:

1. for category A, subcategories B1.2 and B1.4 and category B3:

   (i) 3 years of practical maintenance experience on operating aircraft, if the applicant has no previous relevant technical training; or

   (ii) 2 years of practical maintenance experience on operating aircraft and completion of training considered relevant by the SCAA as a skilled worker, in a technical trade; or

   (iii) 1 year of practical maintenance experience on operating aircraft and completion of a basic training course approved in accordance with AAR-147;

2. for category B2 and subcategories B1.1 and B1.3:

   (i) 5 years of practical maintenance experience on operating aircraft if the applicant has no previous relevant technical training; or

   (ii) 3 years of practical maintenance experience on operating aircraft and completion of training considered relevant by the SCAA as a skilled worker, in a technical trade; or

   (iii) 2 years of practical maintenance experience on operating aircraft and completion of a basic training course approved in accordance with AAR-147;

3. for category B2L:

   (i) 3 years of practical maintenance experience in operating aircraft, covering the corresponding system rating(s), if the applicant has no previous relevant technical training; or

   (ii) 2 years of practical maintenance experience in operating aircraft, covering the corresponding system rating(s), and completion of training, considered relevant by the SCAA, as a skilled worker in a technical trade; or

   (iii) 1 year of practical maintenance experience in operating aircraft, covering the corresponding system rating(s), and completion of an AAR-147 approved basic training course. For the addition of (a) new system rating(s) to an existing B2L licence, 3 months of practical maintenance experience relevant to the new system rating(s) shall be required for each system rating added.

4. for category L:

   (i) 2 years of practical maintenance experience in operating aircraft covering a representative cross section of maintenance activities in the corresponding subcategory;

   (ii) as a derogation from point (i), 1 year of practical maintenance experience in operating aircraft covering a representative cross section of maintenance activities in the corresponding subcategory, subject to the introduction of the limitation provided for in point 66.45(h)(ii)(3).

   For the inclusion of an additional subcategory in an existing L licence, the experience required by points (i) and (ii) shall be 12 and 6 months respectively.

   The holder of an aircraft maintenance licence in category/subcategory B1.2 or B3 is deemed to meet the basic experience requirements for a licence in subcategories L1C, L1, L2C and L2.

5. for category C with respect to complex motor-powered aircraft:

(i) 3 years of experience exercising category B1.1, B1.3 or B2 privileges on complex motor-powered aircraft or as support staff according to point 145.35 of AAR-145, or, a combination of both; or

(ii) 5 years of experience exercising category B1.2 or B1.4 privileges on complex motor-powered aircraft or as support staff according to point 145.35 of AAR-145, or a combination of both;

6. for category C with respect to other than complex motor-powered aircraft: 3 years of experience exercising category B1 or B2 privileges on other than complex motor-powered aircraft or as support staff according to point 145.35 of AAR-145, or a combination of both;

7. for category C obtained through the academic route: an applicant holding an academic degree in a technical discipline, from a university or other higher educational institution recognised by the SCAA, 3 years of experience working in a civil aircraft maintenance environment on a representative selection of tasks directly associated with aircraft maintenance including 6 months of observation of base maintenance tasks.

(b) An applicant for an extension to an aircraft maintenance licence shall have a minimum civil aircraft maintenance experience requirement appropriate to the additional category or subcategory of licence applied for as defined in Appendix IV to AAR-66.

(c) The experience shall be practical and involve a representative cross section of maintenance tasks on aircraft.

(d) At least 1 year of the required experience shall be recent maintenance experience on aircraft of the category/subcategory for which the initial aircraft maintenance licence is sought. For subsequent category/subcategory additions to an existing aircraft maintenance licence, the additional recent maintenance experience required may be less than 1 year, but shall be at least 3 months. The required experience shall be dependent upon the difference between the licence category/subcategory held and applied for. Such additional experience shall be typical of the new licence category/subcategory sought.

(e) Notwithstanding point (a), aircraft maintenance experience gained outside a civil aircraft maintenance environment shall be accepted when such maintenance is equivalent to that required by AAR-66 as established by the SCAA. Additional experience of civil aircraft maintenance shall, however, be required to ensure adequate understanding of the civil aircraft maintenance environment.

(f) Experience shall have been acquired within the 10 years preceding the application for an aircraft maintenance licence or the addition of a category or subcategory to such a licence.

AMC TO 66.30(A)

1. For a category C applicant holding an academic degree the representative selection of tasks should include the observation of hangar maintenance, maintenance planning, quality assurance, record-keeping, approved spare parts control and engineering development.

2. While an applicant to a category C licence may be qualified by having 3 years experience as category B1 or B2 certifying staff only in line maintenance, it is however recommended that any applicant to a category C holding a B1 or B2 licence can demonstrate at least 12 months experience as a B1 or B2 support staff.

3. A skilled worker is a person who has successfully completed a training, acceptable to the SCAA, involving the manufacture, repair, overhaul or inspection of mechanical, electrical or electronic equipment. The training would include the use of tools and measuring devices.

4. Maintenance experience on operating aircraft:

— means the experience of being involved in maintenance tasks on aircraft which are being operated by airlines, air taxi organisations, aero clubs, owners, etc., as relevant to the licence category/subcategory;

— shall cover a wide range of tasks in terms of length, complexity and variety;

— aims at gaining sufficient experience in the real environment of maintenance as opposed to only the training school environment;

— may be gained within different types of maintenance organisations (AAR-145, AAR-CAO, EASA Part-145, FAR-145, etc.) or under the supervision of independent certifying staff;

— may be combined with AAR-147 approved training (or other training approved by the SCAA) so that periods of training can be intermixed with periods of experience, similar to an apprenticeship;

— may be full-time or part-time, either as professional or on a voluntary basis;

— in the case of the L licence, it is acceptable that the 1 or 2 years of experience required by point 66.30(a)(4) covers maintenance performed only during the weekends (or equivalent periods) as long as the applicant has achieved a sufficient level of competency related to the applicable licence subcategory as attested by the corresponding statement(s) issued by the maintenance organisation(s) or independent certifying staff that supervised the applicant.

5. In the case of an applicant for a licence including several categories/subcategories, it is acceptable to combine the periods of experience as long as there is a sufficient experience for each category/subcategory during the required period. Examples:

— Application for a B1.1 (turbine aeroplanes) + B1.3 (turbine helicopters): AAR-66 requires 5 years of experience for B1.1 and 5 years of experience for B1.3 for an applicant with no relevant previous technical training:

  — It is not acceptable to combine the experience in a single 5-year period where the applicant has been working for 3 years on turbine aeroplanes and 2 years on turbine helicopters.

  — However, it is acceptable to combine the experience in a single 5-year period if the applicant has been working for 5 years on turbine aeroplanes and turbine helicopters (for example, aeroplanes in the morning, helicopters in the afternoon, or a few days every week on aeroplanes and a few days every week on helicopters).

— Application for a B1.1 (turbine aeroplanes) + B2 (avionics): AAR-66 requires 5 years of experience for B1.1 and 5 years of experience for B2 for an applicant with no relevant previous technical training.

  — It is not acceptable to combine the experience in a single 5-year period where the applicant has been working for 3 years on turbine aeroplanes (with no avionics work) and 2 years on avionics systems.

  — However, it is acceptable to combine the experience in a single 5-year period if the applicant has been working for 5 years on structures, powerplant, mechanical and electrical systems and avionics (for B1.1 tasks in the morning, B2 tasks in the afternoon, or a few days every week for B1.1 tasks and a few days every week for B2 tasks).

— Application for a B1.1, B1.2, B1.3, B1.4 and B2: AAR-66 requires 5 years of experience for B1.1, B1.3 and B2 and 3 years of experience for B1.2 and B1.4 for an applicant with no relevant previous technical training.

— In this case, it is very unlikely that the experience for each category/subcategory would be sufficient.

AMC TO 66.30(C)

In the case of the category B2L licence, the sentence ‘a representative cross section of maintenance tasks on aircraft’ refers to the person that has carried out some maintenance tasks that are representative of the systems corresponding to the system ratings for which he/she applies (see point 66.3). These tasks may include troubleshooting, modifications or repairs.

AMC TO 66.30(D)

To be considered as recent experience; at least 50% of the required 12-month recent experience should be gained within the 12 month period prior to the date of application for the aircraft maintenance licence. The remainder of the recent experience should have been gained within the 7-year period prior to application. It must be noted that the rest of the basic experience required by point 66.30 must be obtained within the 10 years prior to the application as required by point 66.30(f).

AMC TO 66.30(E)

1. For categories A and L, the additional experience should be a minimum of 6 months in a civil aircraft maintenance environment. For categories B1, B2, B2L or B3, the additional experience should be a minimum of 12 months in a civil aircraft maintenance environment.
2. Aircraft maintenance experience gained outside a civil aircraft maintenance environment may include aircraft maintenance experience gained in armed forces, coast guards, police etc. or in aircraft manufacturing.

66.40 CONTINUED VALIDITY OF THE AIRCRAFT MAINTENANCE LICENCE

(a) The aircraft maintenance licence becomes invalid 5 years after its last issue or change, unless the holder submits his/her aircraft maintenance licence to the SCAA that issued it, in order to verify that the information contained in the licence is the same as that contained in the SCAA records.

(b) The holder of an aircraft maintenance licence shall complete the relevant parts of SCAA Form 19 (see Appendix V) and submit it with the holder's copy of the licence to the SCAA, unless the holder works in a maintenance organisation approved in accordance with AAR-145 that has a procedure in its exposition whereby such organisation may submit the necessary documentation on behalf of the aircraft maintenance licence holder.

(c) Any certification privilege based upon an aircraft maintenance licence becomes invalid as soon as the aircraft maintenance licence is invalid.

(d) The aircraft maintenance licence is only valid (i) when issued and/or changed by the SCAA and (ii) when the holder has signed the document.

GM TO 66.40

The validity of the aircraft maintenance licence is not affected by recency of maintenance experience whereas the validity of the 66.20 privileges is affected by maintenance experience as specified in point 66.20(a).

66.45 ENDORSEMENT WITH AIRCRAFT RATINGS

(a) In order to be entitled to exercise certification privileges on a specific aircraft type, the holder of an aircraft maintenance licence needs to have their licence endorsed with the relevant aircraft ratings:

— For category B1, B2 or C, the relevant aircraft ratings are the following:

(i) for Group 1 aircraft, the appropriate aircraft type rating;

(ii) for Group 2 aircraft, the appropriate aircraft type rating, manufacturer subgroup rating or full subgroup rating;

(iii) for Group 3 aircraft, the appropriate aircraft type rating or full group rating;

(iv) for Group 4 aircraft, for the category B2 licence, the full group rating.

— For category B2L, the relevant aircraft ratings are the following:

(i) for Group 2 aircraft, the appropriate manufacturer subgroup rating or full subgroup rating;

(ii) for Group 3 aircraft, the full group rating;

(iii) for Group 4 aircraft, the full group rating.

— For category B3, the relevant rating is ‘piston-engine non-pressurised aeroplanes of 2 000 kg MTOM and below’.

— For category L, the relevant aircraft ratings are the following:

(i) for subcategory L1C, the rating ‘composite sailplanes’;

(ii) for subcategory L1, the rating ‘sailplanes’;

(iii) for subcategory L2C, the rating ‘composite powered sailplanes and composite LA1 aeroplanes’;

(iv) for subcategory L2, the rating ‘powered sailplanes and LA1 aeroplanes’;

(v) for subcategory L3H, the rating ‘hot-air balloons’;

(vi) for subcategory L3G, the rating ‘gas balloons’

(vii) for subcategory L4H, the rating ‘hot-air airships’;

(viii) for subcategory L4G, the rating ‘LA2 gas airships’;

(ix) for subcategory L5, the appropriate airship type rating.

— For category A, no rating is required, subject to compliance with the requirements of point 145.35 of AAR-145.

(b) The endorsement of aircraft type ratings requires the satisfactory completion of one of the following:

— the relevant category B1, B2 or C aircraft type training in accordance with Appendix III to AAR-66;

— in the case of gas airship type ratings on a B2 or L5 licence, a type training approved by the SCAA.

(c) For other than category C licences, in addition to the requirements of point (b), the endorsement of the first aircraft type rating within a given category/subcategory requires satisfactory completion of the corresponding on-the-job training. This on-the-job training

shall comply with Appendix III to AAR-66, except in the case of gas airships, where it shall be directly approved by the SCAA.

(d) By derogation from points (b) and (c), for Group 2 and 3 aircraft, aircraft type ratings may also be endorsed on a licence after completing the following steps:

— satisfactory completion of the relevant category B1, B2 or C aircraft type examination in accordance with Appendix III to these Rules;

— in the case of B1 and B2 category, demonstration of practical experience in the aircraft type. In that case, the practical experience shall include a representative cross section of maintenance activities relevant to the licence category.

In the case of a category C rating, for a person qualified through the academic route as referred to in point 66.30(a)(7), the first relevant aircraft type examination shall be at the category B1 or B2 level.

(e) For Group 2 aircraft:

(i) the endorsement of manufacturer subgroup ratings for category B1 and C licence holders requires complying with the aircraft type rating requirements for at least two aircraft types from the same manufacturer, which combined are representative of the applicable manufacturer subgroup;

(ii) the endorsement of full subgroup ratings for category B1 and C licence holders requires complying with the aircraft type rating requirements for at least three aircraft types from different manufacturers, which combined are representative of the applicable subgroup;

(iii) the endorsement of manufacturer subgroup and full subgroup ratings for category B2 and B2L licence holders requires demonstration of practical experience which shall include a representative cross section of maintenance activities relevant to the licence category and to the applicable aircraft subgroup and, in the case of the B2L licence, relevant to the applicable system rating(s);

(iv) by derogation from point (e)(iii), the holder of a B2 or B2L licence, endorsed with a full subgroup 2b, is entitled to be endorsed with a full subgroup 2c.

(f) For Group 3 and 4 aircraft:

(i) the endorsement of the full Group 3 rating for category B1, B2, B2L and C licence holders and the endorsement of the full Group 4 rating for B2 and B2L licence holders require demonstration of practical experience, which shall include a representative cross section of maintenance activities relevant to the licence category and to Group 3 or 4, as applicable;

(ii) for category B1, unless the applicant provides evidence of appropriate experience, Group 3 rating shall be subject to the following limitations, which shall be endorsed on the licence:

— pressurised aeroplanes,

— metal-structure aeroplanes,

— composite-structure aeroplanes,

— wooden-structure aeroplanes,

— aeroplanes with metal-tubing structure covered with fabric;

(iii) by derogation from point (f)(i), the holder of a B2L licence, endorsed with a full subgroup 2a or 2b, is entitled to be endorsed with Groups 3 and 4.

(g) For the B3 licence:

(i) the endorsement of the rating 'piston engine non-pressurised aeroplanes of 2 000 kg MTOM and below' requires demonstration of practical experience, which shall include a representative cross section of maintenance activities relevant to the licence category;

(ii) unless the applicant provides evidence of appropriate experience, the rating referred to in point (i) shall be subject to the following limitations, which shall be endorsed on the licence:

— wooden-structure aeroplanes,

— aeroplanes with metal-tubing structure covered with fabric,

— metal-structure aeroplanes,

— composite-structure aeroplanes.

(h) For all L licence subcategories, other than L5:

(i) the endorsement of ratings requires demonstration of practical experience which shall include a representative cross section of maintenance activities relevant to the licence subcategory;

(ii) unless the applicant provides evidence of appropriate experience, the ratings shall be subject to the following limitations, which shall be endorsed on the licence:

(1) for ratings 'sailplanes' and 'powered sailplanes and LA1 aeroplanes':

— wooden-structure aircraft covered with fabric,

— aircraft with metal-tubing structure covered with fabric,

— metal-structure aircraft,

— composite-structure aircraft,

(2) for the rating 'gas balloons':

— other than LA1 gas balloons; and

(3) if the applicant has only provided evidence of one-year experience in accordance with the derogation contained in point 66.30(a)(4)(ii), the following limitation shall be endorsed on the licence:

'complex maintenance tasks provided for in Appendix VII to AAR-M, standard changes provided for in point 21.90B of AAR-21 and standard repairs provided for in point 21.431B of AAR-21.'

The holder of an aircraft maintenance licence in subcategory B1.2 endorsed with the Group 3 rating, or in category B3 endorsed with the rating 'piston engine non-pressurised aeroplanes of 2 000 kg MTOM and below', is deemed to meet the requirements for the issuance of a licence in subcategories L1 and L2 with the corresponding full ratings and with the same limitations as the B1.2/B3 licence held.

GM TO 66.45

The following table shows a summary of the aircraft rating requirements contained in point 66.45, 66.50 and Appendix III to AAR-66.

The table contains the following:

— The different aircraft groups.

— For each licence (sub)category, which ratings are possible (at the choice of the applicant):
  — Individual type ratings.
  — Full and/or Manufacturer (sub)group ratings
— For each rating option, which are the qualification options.
— For the B1.2 licence (Group 3 aircraft), the B3 licence (piston-engine non-pressurised aeroplanes of 2 000 kg MTOM and below) and the L licences, which are the possible limitations and ratings to be included in the licence if not sufficient experience can be demonstrated in those areas.

Note: OJT means 'On-the-Job Training' (Appendix III to AAR-66, Section 6) and is only required for the first aircraft rating in the licence (sub)category.

Aircraft rating requirements			
Aircraft	**B1/B3/L licence**	**B2/B2L licence**	**C licence**
Group 1 aircraft, except airships — Complex motor-powered aircraft. — Multiple engine helicopters. — Aeroplanes certified above FL290. — Aircraft equipped with fly-by-wire. — Other aircraft when defined by the SCAA.	(For B1) **Individual TYPE RATING** Type training: — Theory + examination — Practical + assessment **PLUS** OJT (for first aircraft in licence subcategory)	(For B2) **Individual TYPE RATING** Type training: — Theory + examination — Practical + assessment **PLUS** OJT (for first aircraft in licence subcategory)	**Individual TYPE RATING** Type training: — Theory + examination
Group 1 airships	(For L5 licence) **Individual TYPE RATING** Type training: — Theory + examination — Practical + assessment **PLUS** OJT (for first aircraft in licence subcategory)	(For B2) **Individual TYPE RATING** Type training: — Theory + examination — Practical + assessment **PLUS** OJT (for first aircraft in licence subcategory)	Not applicable

Aircraft rating requirements			
Aircraft	**B1/B3/L licence**	**B2/B2L licence**	**C licence**
Group 2 aircraft Subgroups 2a: single turboprop aeroplanes (*) 2b: single turbine engine helicopters (*) 2c: single piston engine helicopters (*) (*) Except those classified in Group 1	(For B1.1, B1.3, B1.4) **Individual TYPE RATING** (type training + OJT) **or** (type examination + practical experience) **Full SUBGROUP RATING** (type training + OJT) **or** (type examination + practical experience) on at least 3 aircraft representative of that subgroup **Manufacturer SUBGROUP RATING** (type training + OJT) or (type examination + practical experience) on at least 2 aircraft representative of that manufacturer subgroup	(For B2) **Individual TYPE RATING** (type training + OJT) **or** (type examination + practical experience) (For B2 and B2L) **Full SUBGROUP RATING** based on demonstration of practical experience **Manufacturer SUBGROUP RATING** based on demonstration of practical experience	**Individual TYPE RATING** type training **or** type examination **Full SUBGROUP RATING** type training **or** type examination on at least 3 aircraft representative of that subgroup **Manufacturer SUBGROUP RATING** type training **or** type examination on at least 2 aircraft representative of that manufacturer subgroup

Aircraft rating requirements			
Aircraft	**B1/B3/L licence**	**B2/B2L licence**	**C licence**
Group 3 aircraft Piston engine aeroplanes (except those classified in Group 1)	(For B1.2) **Individual TYPE RATING** (type training + OJT) **or** (type examination + practical experience) **Full GROUP 3 RATING** based on demonstration of practical experience **Limitation**: — Pressurized aeroplanes — Metal aeroplanes — Composite aeroplanes — Wooden aeroplanes — Metal tubing & fabric aeroplanes	(For B2) **Individual TYPE RATING** (type training + OJT) **or** (type examination + practical experience) (For B2 and B2L) **Full GROUP 3 RATING** based on demonstration of appropriate experience	**Individual TYPE RATING** type training **or** type examination **Full GROUP 3 RATING** based on demonstration of practical experience

Aircraft rating requirements			
Aircraft	**B1/B3/L licence**	**B2/B2L licence**	**C licence**
Piston engine non-pressurised aeroplanes of 2000 kg MTOM and below	(For B3) **Full RATING "Piston-engine non-pressurised aeroplanes of 2000 kg MTOM and below"** based on demonstration of practical experience **Limitation**: — Metal aeroplanes — Composite aeroplanes — Wooden aeroplanes — Metal tubing & fabric aeroplanes	**This rating cannot be endorsed on a B2/B2L licence. These aircraft are already covered by the endorsement of ratings for Group 3 aircraft (see box above)**	**This rating cannot be endorsed on a C licence. These aircraft are already covered by the endorsement of ratings for Group 3 aircraft (see box above)**

Aircraft rating requirements			
Aircraft	**B1/B3/L licence**	**B2/B2L licence**	**C licence**
Group 4 aircraft Sailplanes, powered sailplanes, balloons and airships other than those in Group 1	(For all L subcategories, except L5) — For L1C: 'composite sailplanes' rating, — For L1: 'sailplanes' rating, — For L2C: 'composite powered sailplanes and composite LA1 aeroplanes' rating, — For L2: 'powered sailplanes and LA1 aeroplanes' rating, — For L3H: 'hot-air balloons' rating, — For L3G: 'gas balloons' rating, — For L4H: 'hot-air airships' rating, − — For L4G: 'LA2 gas airships' rating, all based on demonstration of practical experience **Limitations**: see point 66.45(h)	(For B2 and B2L) **Full GROUP 4 RATING** based on demonstration of practical experience	Not applicable

GM TO 66.45(B)

An aircraft type rating includes all the aircraft models/variants listed in column 2 of Appendix I to AMC to AAR-66.

When a person already holds a type rating on the licence and such type rating is amended in the Appendix I to AMC to AAR-66 in order to include additional models/variants, there is no need for additional type training for the purpose of amending the type rating in the licence. The rating should be amended to include the new variants, upon request by the applicant, without additional requirements. However, it is the responsibility of the licence holder and, if applicable, the

maintenance organisation where he/she is employed to comply with point 66.20(b)(3), 145.35(a), M.607(a), and CAO.040 as applicable, before he/she exercises certification privileges.

Similarly, type training courses covering certain, but not all the models/variants included in a type rating, are valid for the purpose of endorsing the full type rating.

AMC TO 66.45(D);(E)(3);(F)(1);(G)(1);(H)

1. The 'practical experience' should cover a representative cross section including at least:

   — for categories B1, B2, B2L and B3: 50 % of the tasks contained in Appendix II to the AMC relevant to the licence category and to the applicable aircraft type ratings or aircraft (sub)group ratings being endorsed;

   — for category L:

      — in the subcategories L1, L1C, L2 or L2C: 50 % as in the paragraph related to B1, B2, B2L or B3;

      — in the subcategories L3H and L3G for 'Balloons' or L4H, L4G and L5 for 'Airships', 80 % of the tasks should be demonstrated, and shall include the tasks identified with an asterisk (*) in the Appendix;

   This experience should cover tasks from each paragraph of the Appendix II list. Other tasks than those in the Appendix II may be considered as a replacement when they are relevant. In the case of (sub)group ratings, this experience may be shown by covering one or several aircraft types of the applicable (sub)group and may include experience on aircraft classified in group 1, 2 and/or 3 as long as the experience is relevant. The practical experience should be obtained under the supervision of authorised certifying staff.

2. In the case of endorsement of individual type ratings for Group 2 and Group 3 aircraft, for the second aircraft type of each manufacturer (sub)group the practical experience should be reduced to 30% of the tasks contained in Appendix II to AMC relevant to the licence category and to the applicable aircraft type. For subsequent aircraft types of each manufacturer (sub) group this should be reduced to 20%.

3. Practical experience should be demonstrated by the submission of records or a log book showing the Appendix II tasks performed by the applicant. Typical data to be recorded are similar to those described in AMC to 66.20(b)(2).

AMC TO 66.45(E)

1. For the granting of manufacturer subgroup ratings for Group 2 aircraft, for B1 and C licence holders, the sentence 'at least two aircraft types from the same manufacturer which combined are representative of the applicable manufacturer subgroup' means that the selected aircraft types should cover the technologies relevant to the manufacturer subgroup in the following areas:

   — Flight control systems (mechanical controls/hydromechanically powered controls / electromechanically powered controls); and

   — Avionic systems (analogue systems / digital systems); and

   — Structure (manufactured of metal / composite / wood).

   In cases where there are very different aircraft types within the same manufacturer subgroup, it may be necessary to cover more than two aircraft types to ensure adequate representation.

For this purpose it may be possible to use aircraft types from the same manufacturer classified in Group 1 as long as the selected aircraft belong to the same licence subcategory for which the rating will be endorsed.

2. For the granting of full subgroup ratings for Group 2 aircraft, for B1 and C licence holders, the sentence ‘at least three aircraft types from different manufacturers which combined are representative of the applicable subgroup’ means that the selected aircraft types should cover all the technologies relevant to the manufacturer subgroup in the following areas:

   — Flight control systems (mechanical controls/hydromechanically powered controls / electromechanically powered controls); and

   — Avionic systems (analogue systems / digital systems); and

   — Structure (manufactured of metal / composite / wood).

   In cases where there are very different aircraft types within the same subgroup, it may be necessary to cover more than three aircraft types to ensure adequate representation.

   For this purpose it may be possible to use aircraft types from different manufacturers classified in Group 1 as long as the selected aircraft belong to the same licence subcategory for which the rating will be endorsed.

3. For manufacturer subgroup ratings, the term ‘manufacturer’ means the TC holder defined in the certification data sheet, which is reflected in the list of type ratings in Appendix I to AMC to AAR-66.

   In the case of an aircraft rating where the type rating refers to a TC holder made of a combination of two manufacturers which produce a similar aircraft (i.e. AGUSTA / BELL HELICOPTER TEXTRON or any case of aircraft similarly built by another manufacturer) this combination should be considered as one manufacturer.

   As a consequence:

   — When a licence holder gets a manufacturer type or a manufacturer subgroup rating made of a combination of manufacturers, it covers the combination of such manufacturers.

   — When a licence holder who intends to endorse a full subgroup rating selects three aircraft from different manufacturers, this means from different combinations of manufacturers as applicable.

GM TO 66.45(H)(2)

For subcategories L1 and L2, it is possible to endorse the corresponding ratings with limitations depending on the type of structures covered by the experience gained.

For subcategory L3G, it is possible to endorse the rating ‘gas balloons’ with a limitation to ‘other than LA1 gas balloons’ if the experience gained only covers LA1 gas balloons.

However, no limitations are possible for the subcategories L1C, L2C, L3H, L4H and L4G. The ratings on these licences can only be obtained after demonstration of the appropriate experience representative of the full scope of the licence subcategory.

66.50 LIMITATIONS

(a) Limitations introduced on an aircraft maintenance licence are exclusions from the certification privileges and, in the case of limitations referred to in point 66.45, they affect the aircraft in its entirety.

(b) For limitations referred to in point 66.45, limitations shall be removed upon:

1. demonstration of appropriate experience; or
2. after a satisfactory practical assessment performed by the SCAA.

AMC TO 66.50(B)

1. The appropriate experience required to remove the limitations referred to in 66.45(f), (g) and (h) should consist of the performance of a variety of tasks appropriate to the limitations under the supervision of authorised certifying staff. This should include the tasks required by a scheduled annual inspection. Alternatively, this experience may also be gained, if agreed by the SCAA, by theoretical and practical training provided by the manufacturer, as long as an assessment is further carried out and recorded by this manufacturer.
2. It is acceptable to have this experience in just one aircraft type, provided this type is representative of the (sub)group in relation to the limitation being removed.
3. The application for the limitation removal should be supported by a record of experience signed by the authorised certifying staff or by an assessment signed by the manufacturer after completion of the applicable theoretical and practical training.

66.55 EVIDENCE OF QUALIFICATION

Personnel exercising certification privileges as well as support staff shall produce their licence, as evidence of qualification, within 24 hours upon request by an authorised person.

66.60 REVOCATION, SUSPENSION OR LIMITATION OF THE AIRCRAFT MAINTENANCE LICENCE

The SCAA shall suspend, limit or revoke the aircraft maintenance licence where it has identified a safety issue or if it has clear evidence that the person has carried out or been involved in one or more of the following activities:

(a) obtaining the aircraft maintenance licence and/or the certification privileges by falsification of documentary evidence;

(b) failing to carry out requested maintenance combined with failure to report such fact to the organisation or person who requested the maintenance;

(c) failing to carry out required maintenance resulting from own inspection combined with failure to report such fact to the organisation or person for whom the maintenance was intended to be carried out;

(d) negligent maintenance;

(e) falsification of the maintenance record;

(f) issuing a certificate of release to service knowing that the maintenance specified on the certificate of release to service has not been carried out or without verifying that such maintenance has been carried out;

(g) carrying out maintenance or issuing a certificate of release to service when adversely affected by alcohol or drugs;

(h) issuing certificate of release to service while not in compliance with AAR-M, AAR-145 or AAR-66.

APPENDIX I – BASIC KNOWLEDGE EEQUIREMENTS (EXCEPT FOR CATEGORY L LICENCE)

1. KNOWLEDGE LEVELS FOR CATEGORY A, B1, B2, B2L, B3 AND C AIRCRAFT MAINTENANCE LICENCES

Basic knowledge for categories A, B1, B2, B2L and B3 is indicated by knowledge levels (1, 2 or 3) of each applicable subject. Category C applicants shall meet either the category B1 or the category B2 basic knowledge levels.

The knowledge level indicators are defined on 3 levels as follows:

— *LEVEL 1: A familiarisation with the principal elements of the subject.*

Objectives:

(a) The applicant should be familiar with the basic elements of the subject.

(b) The applicant should be able to give a simple description of the whole subject, using common words and examples.

(c) The applicant should be able to use typical terms.

— *LEVEL 2: A general knowledge of the theoretical and practical aspects of the subject and an ability to apply that knowledge.*

Objectives:

(a) The applicant should be able to understand the theoretical fundamentals of the subject.

(b) The applicant should be able to give a general description of the subject using, as appropriate, typical examples.

(c) The applicant should be able to use mathematical formulae in conjunction with physical laws describing the subject.

(d) The applicant should be able to read and understand sketches, drawings and schematics describing the subject.

(e) The applicant should be able to apply his knowledge in a practical manner using detailed procedures.

— *LEVEL 3: A detailed knowledge of the theoretical and practical aspects of the subject and a capacity to combine and apply the separate elements of knowledge in a logical and comprehensive manner.*

Objectives:

(a) The applicant should know the theory of the subject and interrelationships with other subjects.

(b) The applicant should be able to give a detailed description of the subject using theoretical fundamentals and specific examples.

(c) The applicant should understand and be able to use mathematical formulae related to the subject.

(d) The applicant should be able to read, understand and prepare sketches, simple drawings and schematics describing the subject.

(e) The applicant should be able to apply his knowledge in a practical manner using manufacturer's instructions.

(f) The applicant should be able to interpret results from various sources and measurements and apply corrective action where appropriate.

2. MODULARISATION

Qualification on basic subjects for each aircraft maintenance licence category or subcategory shall be in accordance with the following matrix, where applicable subjects are indicated by an 'X':

For categories A, B1 and B3:

Subject module	A or B1 aeroplane with:		A or B1 helicopter with:		B3
	Turbine engine(s)	Piston engine(s)	Turbine engine(s)	Piston engine(s)	Piston-engine non-pressurised aeroplanes 2000 kg MTOM and below
1	X	X	X	X	X
2	X	X	X	X	X
3	X	X	X	X	X
4	X	X	X	X	X
5	X	X	X	X	X
6	X	X	X	X	X
7A	X	X	X	X	
7B					X
8	X	X	X	X	X
9A	X	X	X	X	
9B					X
10	X	X	X	X	X
11A	X				
11B		X			
11C					X

12			X	X	
13					
14					
15	X		X		
16		X		X	X
17A	X	X			
17B					X

For categories B2 and B2L:

Subject module/submodules	B2	B2L
1	X	X
2	X	X
3	X	X
4	X	X
5	X	X
6	X	X
7A	X	X
7B		
8	X	X
9A	X	X
9B		
10	X	X
11A		
11B		
11C		
12		
13.1 and 13.2	X	X

13.3(a)	X	X (for system rating ‘Autoflight’)
13.3(b)	X	
13.4(a)	X	X (for system rating ‘Com/Nav’)
13.4(b)	X	X (for system rating ‘Surveillance’)
13.4(c)	X	
13.5	X	X
13.6	X	
13.7	X	X (for system rating ‘Autoflight’)
13.8	X	X (for system rating ‘Instruments’)
13.9	X	X
13.10	X	
13.11 to 13.18	X	X (for system rating ‘Airframe systems’)
13.19 to 13.22	X	
14	X	X (for system ratings ‘Instruments’ and ‘Airframe systems’)’
15		
16		
17A		
17B		

MODULE 1. MATHEMATICS

MODULE 1. MATHEMATICS	LEVEL			
	A	B1	B2 B2L	B3
1.1. Arithmetic Arithmetical terms and signs, methods of multiplication and division, fractions and decimals, factors and multiples, weights, measures and conversion factors, ratio and proportion, averages and percentages, areas and volumes, squares, cubes, square and cube roots.	1	2	2	2
1.2. Algebra				
(a) Evaluating simple algebraic expressions, addition, subtraction, multiplication and division, use of brackets, simple algebraic fractions;	1	2	2	2
(b) Linear equations and their solutions; Indices and powers, negative and fractional indices; Binary and other applicable numbering systems; Simultaneous equations and second degree equations with one unknown; Logarithms.	-	1	1	1
1.3. Geometry				
(a) Simple geometrical constructions;	-	1	1	1
(b) Graphical representation; nature and uses of graphs, graphs of equations/functions;	2	2	2	2
(c) Simple trigonometry; trigonometrical relationships, use of tables and rectangular and polar coordinates.	-	2	2	2

MODULE 2. PHYSICS

MODULE 2. PHYSICS	LEVEL			
	A	B1	B2 B2L	B3
2.1. Matter Nature of matter: the chemical elements, structure of atoms, molecules; Chemical compounds; States: solid, liquid and gaseous; Changes between states.	1	1	1	1
2.2. Mechanics *2.2.1. Statics* Forces, moments and couples, representation as vectors; Centre of gravity; Elements of theory of stress, strain and elasticity: tension, compression, shear and torsion; Nature and properties of solid, fluid and gas; Pressure and buoyancy in liquids (barometers).	1	2	1	1
2.2.2. Kinetics Linear movement: uniform motion in a straight line, motion under constant acceleration (motion under gravity); Rotational movement: uniform circular motion (centrifugal/centripetal forces); Periodic motion: pendular movement; Simple theory of vibration, harmonics and resonance; Velocity ratio, mechanical advantage and efficiency.	1	2	1	1
2.2.3. Dynamics (a) Mass; Force, inertia, work, power, energy (potential, kinetic and total energy), heat, efficiency; (b) Momentum, conservation of momentum; Impulse; Gyroscopic principles; Friction: nature and effects, coefficient of friction (rolling resistance).	1 1	2 2	1 2	1 1
2.2.4. Fluid dynamics (a) Specific gravity and density; (b) Viscosity, fluid resistance, effects of streamlining; Effects of compressibility on fluids; Static, dynamic and total pressure: Bernoulli's Theorem, venturi.	2 1	2 2	2 1	2 1

MODULE 2. PHYSICS	LEVEL			
	A	B1	B2 B2L	B3
2.3. Thermodynamics (a) Temperature: thermometers and temperature scales: Celsius, Fahrenheit and Kelvin; Heat definition;	2	2	2	2
(b) Heat capacity, specific heat; Heat transfer: convection, radiation and conduction; Volumetric expansion; First and second law of thermodynamics; Gases: ideal gases laws; specific heat at constant volume and constant pressure, work done by expanding gas; Isothermal, adiabatic expansion and compression, engine cycles, constant volume and constant pressure, refrigerators and heat pumps; Latent heats of fusion and evaporation, thermal energy, heat of combustion.	-	2	2	1
2.4. Optics (Light) Nature of light; speed of light; Laws of reflection and refraction: reflection at plane surfaces, reflection by spherical mirrors, refraction, lenses; Fibre optics.	-	2	2	-
2.5. Wave Motion and Sound Wave motion: mechanical waves, sinusoidal wave motion, interference phenomena, standing waves; Sound: speed of sound, production of sound, intensity, pitch and quality, Doppler effect.	-	2	2	-

MODULE 3. ELECTRICAL FUNDAMENTALS

MODULE 3. ELECTRICAL FUNDAMENTALS	LEVEL			
	A	B1	B2 B2L	B3
3.1. Electron Theory Structure and distribution of electrical charges within: atoms, molecules, ions, compounds; Molecular structure of conductors, semiconductors and insulators.	1	1	1	1
3.2. Static Electricity and Conduction Static electricity and distribution of electrostatic charges; Electrostatic laws of attraction and repulsion; Units of charge, Coulomb's Law; Conduction of electricity in solids, liquids, gases and a vacuum.	1	2	2	1
3.3. Electrical Terminology The following terms, their units and factors affecting them: potential difference, electromotive force, voltage, current, resistance, conductance, charge, conventional current flow, electron flow.	1	2	2	1
3.4. Generation of Electricity Production of electricity by the following methods: light, heat, friction, pressure, chemical action, magnetism and motion.	1	1	1	1
3.5. DC Sources of Electricity Construction and basic chemical action of: primary cells, secondary cells, lead acid cells, nickel cadmium cells, other alkaline cells; Cells connected in series and parallel; Internal resistance and its effect on a battery; Construction, materials and operation of thermocouples; Operation of photo-cells.	1	2	2	2
3.6. DC Circuits Ohms Law, Kirchoff's Voltage and Current Laws; Calculations using the above laws to find resistance, voltage and current; Significance of the internal resistance of a supply.	-	2	2	1

MODULE 3. ELECTRICAL FUNDAMENTALS	LEVEL			
	A	B1	B2 B2L	B3
3.7. Resistance / Resistor (a) Resistance and affecting factors; Specific resistance; Resistor colour code, values and tolerances, preferred values, wattage ratings; Resistors in series and parallel; Calculation of total resistance using series, parallel and series parallel combinations; Operation and use of potentiometers and rheostats; Operation of Wheatstone Bridge;	-	2	2	1
(b) Positive and negative temperature coefficient conductance; Fixed resistors, stability, tolerance and limitations, methods of construction; Variable resistors, thermistors, voltage dependent resistors; Construction of potentiometers and rheostats; Construction of Wheatstone Bridge.	-	1	1	-
3.8. Power Power, work and energy (kinetic and potential); Dissipation of power by a resistor; Power formula; Calculations involving power, work and energy.	-	2	2	1
3.9. Capacitance / Capacitor Operation and function of a capacitor; Factors affecting capacitance area of plates, distance between plates, number of plates, dielectric and dielectric constant, working voltage, voltage rating; Capacitor types, construction and function; Capacitor colour coding; Calculations of capacitance and voltage in series and parallel circuits; Exponential charge and discharge of a capacitor, time constants; Testing of capacitors.	-	2	2	1
3.10. Magnetism (a) Theory of magnetism; Properties of a magnet; Action of a magnet suspended in the Earth's magnetic field; Magnetisation and demagnetisation; Magnetic shielding; Various types of magnetic material; Electromagnets construction and principles of operation; Hand clasp rules to determine: magnetic field around current carrying conductor;	-	2	2	1
(b) Magnetomotive force, field strength, magnetic flux density, permeability, hysteresis loop, retentivity, coercive force reluctance, saturation point, eddy currents; Precautions for care and storage of magnets.	-	2	2	1

MODULE 3. ELECTRICAL FUNDAMENTALS	LEVEL			
	A	B1	B2 B2L	B3
3.11. Inductance / Inductor Faraday's Law; Action of inducing a voltage in a conductor moving in a magnetic field; Induction principles; Effects of the following on the magnitude of an induced voltage: magnetic field strength, rate of change of flux, number of conductor turns; Mutual induction; The effect the rate of change of primary current and mutual inductance has on induced voltage; Factors affecting mutual inductance: number of turns in coil, physical size of coil, permeability of coil, position of coils with respect to each other; Lenz's Law and polarity determining rules; Back emf, self induction; Saturation point; Principle uses of inductors.	-	2	2	1
3.12. DC Motor / Generator Theory Basic motor and generator theory; Construction and purpose of components in DC generator; Operation of, and factors affecting output and direction of current flow in DC generators; Operation of, and factors affecting output power, torque, speed and direction of rotation of DC motors; Series wound, shunt wound and compound motors; Starter Generator construction.	-	2	2	1
3.13. AC Theory Sinusoidal waveform: phase, period, frequency, cycle; Instantaneous, average, root mean square, peak, peak to peak current values and calculations of these values, in relation to voltage, current and power; Triangular/Square waves; Single/3 phase principles.	1	2	2	1
3.14. Resistive (R), Capacitive (C) and Inductive (L) Circuits Phase relationship of voltage and current in L, C and R circuits, parallel, series and series parallel; Power dissipation in L, C and R circuits; Impedance, phase angle, power factor and current calculations; True power, apparent power and reactive power calculations.	-	2	2	1
3.15. Transformers Transformer construction principles and operation; Transformer losses and methods for overcoming them; Transformer action under load and no-load conditions; Power transfer, efficiency, polarity markings; Calculation of line and phase voltages and currents; Calculation of power in a three phase system; Primary and Secondary current, voltage, turns ratio, power, efficiency; Auto transformers.	-	2	2	1

MODULE 3. ELECTRICAL FUNDAMENTALS	LEVEL			
	A	B1	B2 B2L	B3
3.16. Filters Operation, application and uses of the following filters: low pass, high pass, band pass, band stop.	-	1	1	-
3.17. AC Generators Rotation of loop in a magnetic field and waveform produced; Operation and construction of revolving armature and revolving field type AC generators; Single phase, two phase and three phase alternators; Three phase star and delta connections advantages and uses; Permanent Magnet Generators.	-	2	2	1
3.18 AC Motors Construction, principles of operation and characteristics of: AC synchronous and induction motors both single and polyphase; Methods of speed control and direction of rotation; Methods of producing a rotating field: capacitor, inductor, shaded or split pole.	-	2	2	1

MODULE 4. ELECTRONIC FUNDAMENTALS

MODULE 4. ELECTRONIC FUNDAMENTALS	LEVEL			
	A	B1	B2 B2L	B3
4.1. Semiconductors				
4.1.1. Diodes				
(a) Diode symbols; Diode characteristics and properties; Diodes in series and parallel; Main characteristics and use of silicon controlled rectifiers (thyristors), light emitting diode, photo conductive diode, varistor, rectifier diodes; Functional testing of diodes.	-	2	2	1
(b) Materials, electron configuration, electrical properties; P and N type materials: effects of impurities on conduction, majority and minority characters; PN junction in a semiconductor, development of a potential across a PN junction in unbiased, forward biased and reverse biased conditions; Diode parameters: peak inverse voltage, maximum forward current, temperature, frequency, leakage current, power dissipation; Operation and function of diodes in the following circuits: clippers, clampers, full and half wave rectifiers, bridge rectifiers, voltage doublers and triplers; Detailed operation and characteristics of the following devices: silicon controlled rectifier (thyristor), light emitting diode, Schottky diode, photo conductive diode, varactor diode, varistor, rectifier diodes, Zener diode.	-	-	2	-
4.1.2. Transistors				
(a) Transistor symbols; Component description and orientation; Transistor characteristics and properties.	-	1	2	1
(b) Construction and operation of PNP and NPN transistors; Base, collector and emitter configurations; Testing of transistors; Basic appreciation of other transistor types and their uses; Application of transistors: classes of amplifier (A, B, C); Simple circuits including: bias, decoupling, feedback and stabilisation; Multistage circuit principles: cascades, push-pull, oscillators, multivibrators, flip-flop circuits.	-	-	2	-

MODULE 4. ELECTRONIC FUNDAMENTALS	LEVEL			
	A	B1	B2 B2L	B3
4.1.3. Integrated Circuits				
(a) Description and operation of logic circuits and linear circuits/operational amplifiers;	-	1	-	1
(b) Description and operation of logic circuits and linear circuits; Introduction to operation and function of an operational amplifier used as: integrator, differentiator, voltage follower, comparator; Operation and amplifier stages connecting methods: resistive capacitive, inductive (transformer), inductive resistive (IR), direct; Advantages and disadvantages of positive and negative feedback.	-	-	2	-
4.2. Printed Circuit Boards	-	1	2	-
Description and use of printed circuit boards.				
4.3. Servomechanisms				
(a) Understanding of the following terms: Open and closed loop systems, feedback, follow up, analogue transducers; Principles of operation and use of the following synchro system components/features: resolvers, differential, control and torque, transformers, inductance and capacitance transmitters;	-	1	-	-
(b) Understanding of the following terms: Open and closed loop, follow up, servomechanism, analogue, transducer, null, damping, feedback, deadband; Construction operation and use of the following synchro system components: resolvers, differential, control and torque, E and I transformers, inductance transmitters, capacitance transmitters, synchronous transmitters; Servomechanism defects, reversal of synchro leads, hunting.	-	-	2	-

MODULE 5. DIGITAL TECHNIQUES / ELETRONIC INSTRUMENT SYSTEMS

MODULE 5. DIGITAL TECHNIQUES / ELECTRONIC INSTRUMENT SYSTEMS	LEVEL				
	A	B1.1 B1.3	B1.2 B1.4	B2 B2L	B3
5.1. Electronic Instrument Systems Typical systems arrangements and cockpit layout of electronic instrument systems.	1	2	2	3	1
5.2. Numbering Systems Numbering systems: binary, octal and hexadecimal; Demonstration of conversions between the decimal and binary, octal and hexadecimal systems and vice versa.	-	1	-	2	-
5.3. Data Conversion Analogue Data, Digital Data; Operation and application of analogue to digital, and digital to analogue converters, inputs and outputs, limitations of various types.	-	1	-	2	-
5.4. Data Buses Operation of data buses in aircraft systems, including knowledge of ARINC and other specifications. Aircraft Network/Ethernet.	-	2	-	2	-
5.5. Logic Circuits (a) Identification of common logic gate symbols, tables and equivalent circuits; Applications used for aircraft systems, schematic diagrams. (b) Interpretation of logic diagrams.	- -	2 -	- -	2 2	- -
5.6. Basic Computer Structure (a) Computer terminology (including bit, byte, software, hardware, CPU, IC, and various memory devices such as RAM, ROM, PROM); Computer technology (as applied in aircraft systems). (b) Computer related terminology; Operation, layout and interface of the major components in a micro computer including their associated bus systems; Information contained in single and multiaddress instruction words; Memory associated terms; Operation of typical memory devices; Operation, advantages and disadvantages of the various data storage systems.	1 -	2 -	- -	- 2	- -

MODULE 5. DIGITAL TECHNIQUES / ELECTRONIC INSTRUMENT SYSTEMS	LEVEL				
	A	B1.1 B1.3	B1.2 B1.4	B2 B2L	B3
5.7. Microprocessors Functions performed and overall operation of a microprocessor; Basic operation of each of the following microprocessor elements: control and processing unit, clock, register, arithmetic logic unit.	-	-	-	2	-
5.8. Integrated Circuits Operation and use of encoders and decoders; Function of encoder types; Uses of medium, large and very large scale integration.	-	-	-	2	-
5.9. Multiplexing Operation, application and identification in logic diagrams of multiplexers and demultiplexers.	-	-	-	2	-
5.10. Fibre Optics Advantages and disadvantages of fibre optic data transmission over electrical wire propagation; Fibre optic data bus; Fibre optic related terms; Terminations; Couplers, control terminals, remote terminals; Application of fibre optics in aircraft systems.	-	1	1	2	-
5.11. Electronic Displays Principles of operation of common types of displays used in modern aircraft, including Cathode Ray Tubes, Light Emitting Diodes and Liquid Crystal Display.	-	2	1	2	1
5.12. Electrostatic Sensitive Devices Special handling of components sensitive to electrostatic discharges; Awareness of risks and possible damage, component and personnel anti-static protection devices.	1	2	2	2	1
5.13. Software Management Control Awareness of restrictions, airworthiness requirements and possible catastrophic effects of unapproved changes to software programmes.	-	2	1	2	1

MODULE 5. DIGITAL TECHNIQUES / ELECTRONIC INSTRUMENT SYSTEMS	LEVEL				
	A	B1.1 B1.3	B1.2 B1.4	B2 B2L	B3
5.14. Electromagnetic Environment Influence of the following phenomena on maintenance practices for electronic system: EMC-Electromagnetic Compatibility EMI-Electromagnetic Interference HIRF-High Intensity Radiated Field Lightning/lightning protection.	-	2	2	2	1
5.15. Typical Electronic / Digital Aircraft Systems General arrangement of typical electronic/digital aircraft systems and associated BITE (Built In Test Equipment) such as: (a) For B1 and B2 only: ACARS-ARINC Communication and Addressing and Reporting System EICAS-Engine Indication and Crew Alerting System FBW-Fly-by-Wire FMS-Flight Management System IRS-Inertial Reference System (b) For B1, B2 and B3: ECAM-Electronic Centralised Aircraft Monitoring EFIS-Electronic Flight Instrument System GPS-Global Positioning System TCAS-Traffic Alert Collision Avoidance System Integrated Modular Avionics Cabin Systems Information Systems.	-	2	2	2	1

MODULE 6. MATERIALS AND HARDWARE

MODULE 6. MATERIALS AND HARDWARE	LEVEL			
	A	B1	B2 B2L	B3
6.1. Aircraft Materials – Ferrous				
(a) Characteristics, properties and identification of common alloy steels used in aircraft; Heat treatment and application of alloy steels.	1	2	1	2
(b) Testing of ferrous materials for hardness, tensile strength, fatigue strength and impact resistance.	-	1	1	1
6.2. Aircraft Materials – Non-Ferrous				
(a) Characteristics, properties and identification of common non-ferrous materials used in aircraft; Heat treatment and application of non-ferrous materials;	1	2	1	2
(b) Testing of non-ferrous material for hardness, tensile strength, fatigue strength and impact resistance.	-	1	1	1
6.3. Aircraft Materials – Composite and Non-Metallic				
6.3.1. Composite and non-metallic other than wood and fabric				
(a) Characteristics, properties and identification of common composite and non-metallic materials, other than wood, used in aircraft; Sealant and bonding agents;	1	2	2	2
(b) The detection of defects/deterioration in composite and non-metallic material; Repair of composite and non-metallic material.	1	2	-	2
6.3.2. Wooden structures Construction methods of wooden airframe structures; Characteristics, properties and types of wood and glue used in aeroplanes; Preservation and maintenance of wooden structure; Types of defects in wood material and wooden structures; The detection of defects in wooden structure; Repair of wooden structure.	1	2	-	2
6.3.3. Fabric covering Characteristics, properties and types of fabrics used in aeroplanes; Inspections methods for fabric; Types of defects in fabric; Repair of fabric covering.	1	2	-	2

MODULE 6. MATERIALS AND HARDWARE	LEVEL			
	A	B1	B2 B2L	B3
6.4. Corrosion				
(a) Chemical fundamentals; Formation by, galvanic action process, microbiological, stress;	1	1	1	1
(b) Types of corrosion and their identification; Causes of corrosion; Material types, susceptibility to corrosion.	2	3	2	2
6.5. Fasteners				
6.5.1. Screw threads	2	2	2	2
Screw nomenclature; Thread forms, dimensions and tolerances for standard threads used in aircraft; Measuring screw threads.				
6.5.2. Bolts, studs and screws	2	2	2	2
Bolt types: specification, identification and marking of aircraft bolts, international standards; Nuts: self locking, anchor, standard types; Machine screws: aircraft specifications; Studs: types and uses, insertion and removal; Self tapping screws, dowels.				
6.5.3. Locking devices	2	2	2	2
Tab and spring washers, locking plates, split pins, pal-nuts, wire locking, quick release fasteners, keys, circlips, cotter pins.				
6.5.4. Aircraft rivets	1	2	1	2
Types of solid and blind rivets: specifications and identification, heat treatment.				
6.6. Pipes and Unions				
(a) Identification of, and types of rigid and flexible pipes and their connectors used in aircraft;	2	2	2	2
(b) Standard unions for aircraft hydraulic, fuel, oil, pneumatic and air system pipes.	2	2	1	2
6.7. Springs	-	2	1	1
Types of springs, materials, characteristics and applications.				
6.8. Bearings	1	2	2	1
Purpose of bearings, loads, material, construction; Types of bearings and their application.				

MODULE 6. MATERIALS AND HARDWARE	LEVEL			
	A	B1	B2 B2L	B3
6.9. Transmissions Gear types and their application; Gear ratios, reduction and multiplication gear systems, driven and driving gears, idler gears, mesh patterns; Belts and pulleys, chains and sprockets.	1	2	2	1
6.10. Control Cables Types of cables; End fittings, turnbuckles and compensation devices; Pulleys and cable system components; Bowden cables; Aircraft flexible control systems.	1	2	1	2
6.11. Electrical Cables and Connectors Cable types, construction and characteristics; High tension and co-axial cables; Crimping; Connector types, pins, plugs, sockets, insulators, current and voltage rating, coupling, identification codes.	1	2	2	2

MODULE 7A. MAINTENANCE PRACTICES

Note: This module does not apply to category B3. Relevant subject matters for category B3 are defined in module 7B.

MODULE 7A. MAINTENANCE PRACTICES	LEVEL		
	A	B1	B2 B2L
7.1. Safety Precautions-Aircraft and Workshop Aspects of safe working practices including precautions to take when working with electricity, gases especially oxygen, oils and chemicals. Also, instruction in the remedial action to be taken in the event of a fire or another accident with one or more of these hazards including knowledge on extinguishing agents.	3	3	3
7.2. Workshop Practices Care of tools, control of tools, use of workshop materials; Dimensions, allowances and tolerances, standards of workmanship; Calibration of tools and equipment, calibration standards.	3	3	3
7.3. Tools Common hand tool types; Common power tool types; Operation and use of precision measuring tools; Lubrication equipment and methods. Operation, function and use of electrical general test equipment.	3	3	3
7.4. Avionic General Test Equipment Operation, function and use of avionic general test equipment.	-	2	3
7.5. Engineering Drawings, Diagrams and Standards Drawing types and diagrams, their symbols, dimensions, tolerances and projections; Identifying title block information; Microfilm, microfiche and computerised presentations; Specification 100 of the Air Transport Association (ATA) of America; Aeronautical and other applicable standards including ISO, AN, MS, NAS and MIL; Wiring diagrams and schematic diagrams.	1	2	2
7.6. Fits and Clearances Drill sizes for bolt holes, classes of fits; Common system of fits and clearances; Schedule of fits and clearances for aircraft and engines; Limits for bow, twist and wear; Standard methods for checking shafts, bearings and other parts.	1	2	1

MODULE 7A. MAINTENANCE PRACTICES	LEVEL		
	A	B1	B2 B2L
7.7. Electrical Wiring Interconnection System (EWIS) Continuity, insulation and bonding techniques and testing; Use of crimp tools: hand and hydraulic operated; Testing of crimp joints; Connector pin removal and insertion; Co-axial cables: testing and installation precautions; Identification of wire types, their inspection criteria and damage tolerance. Wiring protection techniques: Cable looming and loom support, cable clamps, protective sleeving techniques including heat shrink wrapping, shielding; EWIS installations, inspection, repair, maintenance and cleanliness standards.	1	3	3
7.8. Riveting Riveted joints, rivet spacing and pitch; Tools used for riveting and dimpling; Inspection of riveted joints.	1	2	-
7.9. Pipes and Hoses Bending and belling/flaring aircraft pipes; Inspection and testing of aircraft pipes and hoses; Installation and clamping of pipes.	1	2	-
7.10. Springs Inspection and testing of springs.	1	2	-
7.11. Bearings Testing, cleaning and inspection of bearings; Lubrication requirements of bearings; Defects in bearings and their causes.	1	2	-
7.12. Transmissions Inspection of gears, backlash; Inspection of belts and pulleys, chains and sprockets; Inspection of screw jacks, lever devices, push-pull rod systems.	1	2	-
7.13. Control Cables Swaging of end fittings; Inspection and testing of control cables; Bowden cables; aircraft flexible control systems.	1	2	-
7.14. Material handling *7.14.1. Sheet Metal* Marking out and calculation of bend allowance; Sheet metal working, including bending and forming; Inspection of sheet metal work.	-	2	-

MODULE 7A. MAINTENANCE PRACTICES	LEVEL		
	A	B1	B2 B2L
7.14.2. Composite and non-metallic Bonding practices; Environmental conditions; Inspection methods.	-	2	-
7.15. Welding, Brazing, Soldering and Bonding (a) Soldering methods; inspection of soldered joints. (b) Welding and brazing methods; Inspection of welded and brazed joints; Bonding methods and inspection of bonded joints.	 - -	 2 2	 2 -
7.16. Aircraft Weight and Balance (a) Centre of Gravity/Balance limits calculation: use of relevant documents; (b) Preparation of aircraft for weighing; Aircraft weighing.	 - -	 2 2	 2 -
7.17. Aircraft Handling and Storage Aircraft taxiing/towing and associated safety precautions; Aircraft jacking, chocking, securing and associated safety precautions; Aircraft storage methods; Refuelling/defuelling procedures; De-icing/anti-icing procedures; Electrical, hydraulic and pneumatic ground supplies. Effects of environmental conditions on aircraft handling and operation.	2	2	2
7.18. Disassembly, Inspection, Repair and Assembly Techniques (a) Types of defects and visual inspection techniques; Corrosion removal, assessment and reprotection; (b) General repair methods, Structural Repair Manual; Ageing, fatigue and corrosion control programmes; (c) Non-destructive inspection techniques including, penetrant, radiographic, eddy current, ultrasonic and boroscope methods; (d) Disassembly and re-assembly techniques; (e) Trouble shooting techniques.	 2 - - 2 -	 3 2 2 2 2	 3 - 1 2 2
7.19. Abnormal Events (a) Inspections following lightning strikes and HIRF penetration; (b) Inspections following abnormal events such as heavy landings and flight through turbulence.	 2 2	 2 2	 2 -

MODULE 7A. MAINTENANCE PRACTICES	LEVEL		
	A	**B1**	**B2 B2L**
7.20. Maintenance Procedures Maintenance planning; Modification procedures; Stores procedures; Certification/release procedures; Interface with aircraft operation; Maintenance Inspection/Quality Control/Quality Assurance; Additional maintenance procedures; Control of life limited components.	1	2	2

MODULE 7B. MAINTENANCE PRACTICES

Note: The scope of this module shall reflect the technology of aeroplanes relevant to the B3 category.

MODULE 7B. MAINTENANCE PRACTICES	LEVEL
	B3
7.1. Safety Precautions-Aircraft and Workshop Aspects of safe working practices including precautions to take when working with electricity, gases especially oxygen, oils and chemicals. Also, instruction in the remedial action to be taken in the event of a fire or another accident with one or more of these hazards including knowledge on extinguishing agents.	3
7.2. Workshop Practices Care of tools, control of tools, use of workshop materials; Dimensions, allowances and tolerances, standards of workmanship; Calibration of tools and equipment, calibration standards.	3
7.3. Tools Common hand tool types; Common power tool types; Operation and use of precision measuring tools; Lubrication equipment and methods; Operation, function and use of electrical general test equipment.	3
7.4. Avionic General Test Equipment Operation, function and use of avionic general test equipment.	1
7.5. Engineering Drawings, Diagrams and Standards Drawing types and diagrams, their symbols, dimensions, tolerances and projections; Identifying title block information; Microfilm, microfiche and computerised presentations; Specification 100 of the Air Transport Association (ATA) of America; Aeronautical and other applicable standards including ISO, AN, MS, NAS and MIL; Wiring diagrams and schematic diagrams.	2
7.6. Fits and Clearances Drill sizes for bolt holes, classes of fits; Common system of fits and clearances; Schedule of fits and clearances for aircraft and engines; Limits for bow, twist and wear; Standard methods for checking shafts, bearings and other parts.	2

MODULE 7B. MAINTENANCE PRACTICES	LEVEL
	B3
7.7. Electrical Cables and Connectors Continuity, insulation and bonding techniques and testing; Use of crimp tools: hand and hydraulic operated; Testing of crimp joints; Connector pin removal and insertion; Co-axial cables: testing and installation precautions; Wiring protection techniques: Cable looming and loom support, cable clamps, protective sleeving techniques including heat shrink wrapping, shielding.	2
7.8. Riveting Riveted joints, rivet spacing and pitch; Tools used for riveting and dimpling; Inspection of riveted joints.	2
7.9. Pipes and Hoses Bending and belling/flaring aircraft pipes; Inspection and testing of aircraft pipes and hoses; Installation and clamping of pipes.	2
7.10. Springs Inspection and testing of springs.	2
7.11. Bearings Testing, cleaning and inspection of bearings; Lubrication requirements of bearings; Defects in bearings and their causes.	2
7.12. Transmissions Inspection of gears, backlash; Inspection of belts and pulleys, chains and sprockets; Inspection of screw jacks, lever devices, push-pull rod systems.	2
7.13. Control Cables Swaging of end fittings; Inspection and testing of control cables; Bowden cables; aircraft flexible control systems.	2
7.14. Material handling *7.14.1. Sheet Metal* Marking out and calculation of bend allowance; Sheet metal working, including bending and forming; Inspection of sheet metal work.	2
7.14.2. Composite and non-metallic Bonding practices; Environmental conditions; Inspection methods.	2

MODULE 7B. MAINTENANCE PRACTICES	LEVEL
	B3
7.15. Welding, Brazing, Soldering and Bonding	
(a) Soldering methods; inspection of soldered joints;	2
b) Welding and brazing methods; Inspection of welded and brazed joints; Bonding methods and inspection of bonded joints.	2
7.16. Aircraft Weight and Balance	
(a) Centre of Gravity/Balance limits calculation: use of relevant documents;	2
(b) Preparation of aircraft for weighing; Aircraft weighing.	2
7.17. Aircraft Handling and Storage	2
Aircraft taxiing/towing and associated safety precautions; Aircraft jacking, chocking, securing and associated safety precautions; Aircraft storage methods; Refuelling/defuelling procedures; De-icing/anti-icing procedures; Electrical, hydraulic and pneumatic ground supplies; Effects of environmental conditions on aircraft handling and operation.	
7.18. Disassembly, Inspection, Repair and Assembly Techniques	
(a) Types of defects and visual inspection techniques; Corrosion removal, assessment and reprotection;	3
(b) General repair methods, Structural Repair Manual; Ageing, fatigue and corrosion control programmes;	2
(c) Non-destructive inspection techniques including, penetrant, radiographic, eddy current, ultrasonic and boroscope methods;	2
(d) Disassembly and re-assembly techniques;	2
(e) Trouble shooting techniques.	2
7.19. Abnormal Events	
(a) Inspections following lightning strikes and HIRF penetration.	2
(b) Inspections following abnormal events such as heavy landings and flight through turbulence.	2
7.20 Maintenance Procedures	2
Maintenance planning; Modification procedures; Stores procedures; Certification/release procedures; Interface with aircraft operation; Maintenance Inspection/Quality Control/Quality Assurance; Additional maintenance procedures; Control of life limited components.	

MODULE 8. BASIC AERODYNAMICS

MODULE 8. BASIC AERODYNAMICS	LEVEL			
	A	B1	B2 B2L	B3
8.1. Physics of the Atmosphere International Standard Atmosphere (ISA), application to aerodynamics.	1	2	2	1
8.2. Aerodynamics Airflow around a body; Boundary layer, laminar and turbulent flow, free stream flow, relative airflow, upwash and downwash, vortices, stagnation; The terms: camber, chord, mean aerodynamic chord, profile (parasite) drag, induced drag, centre of pressure, angle of attack, wash in and wash out, fineness ratio, wing shape and aspect ratio; Thrust, Weight, Aerodynamic Resultant; Generation of Lift and Drag: Angle of Attack, Lift coefficient, Drag coefficient, polar curve, stall; Aerofoil contamination including ice, snow, frost	1	2	2	1
8.3. Theory of Flight Relationship between lift, weight, thrust and drag; Glide ratio; Steady state flights, performance; Theory of the turn; Influence of load factor: stall, flight envelope and structural limitations; Lift augmentation.	1	2	2	1
8.4. Flight Stability and Dynamics Longitudinal, lateral and directional stability (active and passive).	1	2	2	1

MODULE 9A. HUMAN FACTORS

Note: This module does not apply to category B3. Relevant subject matters for category B3 are defined in module 9B.

MODULE 9A. HUMAN FACTORS	LEVEL		
	A	B1	B2 B2L
9.1. General The need to take human factors into account; Incidents attributable to human factors/human error; 'Murphy's' law.	1	2	2
9.2. Human Performance and Limitations Vision; Hearing; Information processing; Attention and perception; Memory; Claustrophobia and physical access.	1	2	2
9.3. Social Psychology Responsibility: individual and group; Motivation and de-motivation; Peer pressure; 'Culture' issues; Team working; Management, supervision and leadership.	1	1	1
9.4. Factors Affecting Performance Fitness/health; Stress: domestic and work related; Time pressure and deadlines; Workload: overload and underload; Sleep and fatigue, shiftwork; Alcohol, medication, drug abuse.	2	2	2
9.5. Physical Environment Noise and fumes; Illumination; Climate and temperature; Motion and vibration; Working environment.	1	1	1
9.6. Tasks Physical work; Repetitive tasks; Visual inspection; Complex systems.	1	1	1
9.7. Communication Within and between teams; Work logging and recording; Keeping up to date, currency; Dissemination of information.	2	2	2
9.8. Human Error Error models and theories; Types of error in maintenance tasks; Implications of errors (i.e. accidents); Avoiding and managing errors.	1	2	2
9.9. Hazards in the Workplace Recognising and avoiding hazards; Dealing with emergencies.	1	2	2

MODULE 9B. HUMAN FACTORS

Note: The scope of this module shall reflect the less demanding environment of maintenance for B3 licence holders.

MODULE 9B. HUMAN FACTORS	LEVEL
	B3
9.1. General The need to take human factors into account; Incidents attributable to human factors/human error; 'Murphy's' law.	2
9.2. Human performance and Limitations Vision; Hearing; Information processing; Attention and perception; Memory; Claustrophobia and physical access.	2
9.3. Social Psychology Responsibility: individual and group; Motivation and de-motivation; Peer pressure; 'Culture' issues; Team working; Management, supervision and leadership.	1
9.4. Factors Affecting Performance Fitness/health; Stress: domestic and work related; Time pressure and deadlines; Workload: overload and underload; Sleep and fatigue, shiftwork; Alcohol, medication, drug abuse.	2
9.5. Physical Environment Noise and fumes; Illumination; Climate and temperature; Motion and vibration; Working environment.	1
9.6. Tasks Physical work; Repetitive tasks; Visual inspection; Complex systems.	1
9.7. Communication Within and between teams; Work logging and recording; Keeping up to date, currency; Dissemination of information.	2
9.8. Human error Error models and theories; Types of error in maintenance tasks; Implications of errors (i.e. accidents); Avoiding and managing errors.	2
9.9. Hazards in the Workplace Recognising and avoiding hazards; Dealing with emergencies.	2

MODULE 10. AVIATION LEGISLATION

MODULE 10. AVIATION LEGISLATION	LEVEL			
	A	B1	B2 B2L	B3
10.1. Regulatory Framework Role of the International Civil Aviation Organisation; Role of the SCAA; Aviation Law of the Republic of Azerbaijan; AAR-21; AAR-M; AAR-ML; AAR-T; AAR-CAMO; AAR-145; AAR-66; AAR-147; AAR-CAO; Relationship between the AARs and Operational Rules.	1	1	1	1
10.2. Certifying Staff – Maintenance Detailed understanding of AAR-66.	2	2	2	2
10.3. Approved Maintenance Organisations Detailed understanding of AAR-145.	2	2	2	2
10.4. Air Operations General understanding of OPS Regulation in force; Air Operators Certificates; Operator's responsibilities, in particular regarding continuing airworthiness and maintenance; Aircraft Maintenance Programme; MEL//CDL; Documents to be carried on board; Aircraft placarding (markings).	1	1	1	1
10.5. Certification of aircraft, parts and appliances (a) General: General understanding of AAR-21 and certification specifications. (b) Documents: Certificate of Airworthiness; restricted certificates of airworthiness and permit to fly; Certificate of Registration; Noise Certificate; Weight Schedule; Radio Station Licence and Approval.	- -	1 2	1 2	1 2
10.6. Continuing airworthiness Detailed understanding of AAR-21 provisions related to continuing airworthiness. Detailed understanding of AAR-M.	2	2	2	2

MODULE 10. AVIATION LEGISLATION	LEVEL			
	A	B1	B2 B2L	B3
10.7. Applicable National and International Requirements (if not superseded by SCAA requirements)				
(a) Maintenance Programmes, Maintenance checks and inspections; Airworthiness Directives; Service Bulletins, manufacturers service information; Modifications and repairs; Maintenance documentation: maintenance manuals, structural repair manual, illustrated parts catalogue, etc.;	1	2	2	2
Only for A to B2 licences: Master Minimum Equipment Lists, Minimum Equipment List, Dispatch Deviation Lists;				
(b) Continuing airworthiness; Minimum equipment requirements — Test flights; Only for B1 and B2 licences: ETOPS, maintenance and dispatch requirements; All Weather Operations, Category 2/3 operations.	-	1	1	1

MODULE 11A. TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS

MODULE 11A. TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A1	B1.1
11.1. Theory of Flight *11.1.1. Aeroplane Aerodynamics and Flight Controls* Operation and effect of: — roll control: ailerons and spoilers, — pitch control: elevators, stabilators, variable incidence stabilisers and canards, — yaw control, rudder limiters; Control using elevons, ruddervators; High lift devices, slots, slats, flaps, flaperons; Drag inducing devices, spoilers, lift dumpers, speed brakes; Effects of wing fences, saw tooth leading edges; Boundary layer control using, vortex generators, stall wedges or leading edge devices; Operation and effect of trim tabs, balance and antibalance (leading) tabs, servo tabs, spring tabs, mass balance, control surface bias, aerodynamic balance panels.	1	2
11.1.2. High Speed Flight Speed of sound, subsonic flight, transonic flight, supersonic flight; Mach number, critical Mach number, compressibility buffet, shock wave, aerodynamic heating, area rule; Factors affecting airflow in engine intakes of high speed aircraft; Effects of sweepback on critical Mach number.	1	2
11.2. Airframe Structures – General Concepts (a) Airworthiness requirements for structural strength; Structural classification, primary, secondary and tertiary; Fail safe, safe life, damage tolerance concepts; Zonal and station identification systems; Stress, strain, bending, compression, shear, torsion, tension, hoop stress, fatigue; Drains and ventilation provisions; System installation provisions; Lightning strike protection provision; Aircraft bonding.	2	2
(b) Construction methods of: stressed skin fuselage, formers, stringers, longerons, bulkheads, frames, doublers, struts, ties, beams, floor structures, reinforcement, methods of skinning, anti-corrosive protection, wing, empennage and engine attachments; Structure assembly techniques: riveting, bolting, bonding; Methods of surface protection, such as chromating, anodising, painting; Surface cleaning; Airframe symmetry: methods of alignment and symmetry checks.	1	2

MODULE 11A. TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A1	B1.1
11.3. Airframe Structures – Aeroplanes *11.3.1. Fuselage (ATA 52/53/56)* Construction and pressurisation sealing; Wing, stabiliser, pylon and undercarriage attachments; Seat installation and cargo loading system; Doors and emergency exits: construction, mechanisms, operation and safety devices; Windows and windscreen construction and mechanisms.	1	2
11.3.2. Wings (ATA 57) Construction; Fuel storage; Landing gear, pylon, control surface and high lift/drag attachments.	1	2
11.3.3. Stabilisers (ATA 55) Construction; Control surface attachment.	1	2
11.3.4. Flight Control Surfaces (ATA 55/57) Construction and attachment; Balancing — mass and aerodynamic.	1	2
11.3.5. Nacelles/Pylons (ATA 54) Nacelles/Pylons: Construction, Firewalls, Engine mounts.	1	2
11.4. Air Conditioning and Cabin Pressurisation (ATA 21) *11.4.1. Air supply* Sources of air supply including engine bleed, APU and ground cart.	1	2
11.4.2. Air Conditioning Air conditioning systems; Air cycle and vapour cycle machines; Distribution systems; Flow, temperature and humidity control system.	1	3
11.4.3. Pressurisation Pressurisation systems; Control and indication including control and safety valves; Cabin pressure controllers.	1	3
11.4.4. Safety and warning devices Protection and warning devices.	1	3

MODULE 11A. TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A1	B1.1
11.5. Instruments/Avionic Systems *11.5.1. Instrument Systems (ATA 31)* Pitot static: altimeter, air speed indicator, vertical speed indicator; Gyroscopic: artificial horizon, attitude director, direction indicator, horizontal situation indicator, turn and slip indicator, turn coordinator; Compasses: direct reading, remote reading; Angle of attack indication, stall warning systems; Glass cockpit; Other aircraft system indication.	1	2
11.5.2. Avionic Systems Fundamentals of system lay-outs and operation of: Auto Flight (ATA 22), Communications (ATA 23), Navigation Systems (ATA 34).	1	1
11.6. Electrical Power (ATA 24) Batteries Installation and Operation; DC power generation; AC power generation; Emergency power generation; Voltage regulation; Power distribution; Inverters, transformers, rectifiers; Circuit protection; External/Ground power.	1	3
11.7. Equipment and Furnishings (ATA 25) (a) Emergency equipment requirements; Seats, harnesses and belts. (b) Cabin lay-out; Equipment lay-out; Cabin Furnishing installation; Cabin entertainment equipment; Galley installation; Cargo handling and retention equipment; Airstairs.	 2 1	 2 1
11.8. Fire Protection (ATA 26) (a) Fire and smoke detection and warning systems; Fire extinguishing systems; System tests; (b) Portable fire extinguisher.	 1 1	 3 2
11.9. Flight Controls (ATA 27) Primary controls: aileron, elevator, rudder, spoiler; Trim control; Active load control; High lift devices; Lift dump, speed brakes; System operation: manual, hydraulic, pneumatic, electrical, fly-by-wire; Artificial feel, Yaw damper, Mach trim, rudder limiter, gust lock systems; Balancing and rigging; Stall protection/warning system.	1	3
11.10. Fuel Systems (ATA 28) System lay-out; Fuel tanks; Supply systems; Dumping, venting and draining; Cross-feed and transfer; Indications and warnings; Refuelling and defuelling; Longitudinal balance fuel systems.	1	3

MODULE 11A. TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A1	B1.1
11.11. Hydraulic Power (ATA 29) System lay-out; Hydraulic fluids; Hydraulic reservoirs and accumulators; Pressure generation: electric, mechanical, pneumatic; Emergency pressure generation; Filters; Pressure Control; Power distribution; Indication and warning systems; Interface with other systems.	1	3
11.12. Ice and Rain Protection (ATA 30) Ice formation, classification and detection; Anti-icing systems: electrical, hot air and chemical; De-icing systems: electrical, hot air, pneumatic and chemical; Rain repellent; Probe and drain heating; Wiper systems.	1	3
11.13. Landing Gear (ATA 32) Construction, shock absorbing; Extension and retraction systems: normal and emergency; Indications and warning; Wheels, brakes, antiskid and autobraking; Tyres; Steering; Air-ground sensing.	2	3
11.14. Lights (ATA 33) External: navigation, anti collision, landing, taxiing, ice; Internal: cabin, cockpit, cargo; Emergency.	2	3
11.15. Oxygen (ATA 35) System lay-out: cockpit, cabin; Sources, storage, charging and distribution; Supply regulation; Indications and warnings.	1	3
11.16. Pneumatic/Vacuum (ATA 36) System lay-out; Sources: engine/APU (Auxiliary Power Unit), compressors, reservoirs, ground supply; Pressure and vacuum pumps; Pressure control; Distribution; Indications and warnings; Interfaces with other systems.	1	3
11.17. Water/Waste (ATA 38) Water system lay-out, supply, distribution, servicing and draining; Toilet system lay-out, flushing and servicing; Corrosion aspects.	2	3
11.18. On Board Maintenance Systems (ATA 45) Central maintenance computers; Data loading system; Electronic library system; Printing; Structure monitoring (damage tolerance monitoring).	1	2

MODULE 11A. TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A1	B1.1
11.19. Integrated Modular Avionics (ATA 42) Functions that may be typically integrated in the Integrated Modular Avionic (IMA) modules are, among others: Bleed Management, Air Pressure Control, Air Ventilation and Control, Avionics and Cockpit Ventilation Control, Temperature Control, Air Traffic Communication, Avionics Communication Router, Electrical Load Management, Circuit Breaker Monitoring, Electrical System BITE, Fuel Management, Braking Control, Steering Control, Landing Gear Extension and Retraction, Tyre Pressure Indication, Oleo Pressure Indication, Brake Temperature Monitoring, etc. Core System; Network Components.	1	2
11.20. Cabin Systems (ATA 44) The units and components which furnish a means of entertaining the passengers and providing communication within the aircraft (Cabin Intercommunication Data System (CIDS)) and between the aircraft cabin and ground stations (Cabin Network Service (CNS)). They include voice, data, music and video transmissions. CIDS provides an interface between cockpit/cabin crew and cabin systems. These systems support data exchange between the different related Line Replaceable Units (LRUs) and they are typically operated via Flight Attendant Panels (FAPs). CNS typically consists of a server, interfacing with, among others, the following systems: Data/Radio Communication; Cabin Core System (CCS); In-flight Entertainment System (IFES); External Communication System (ECS); Cabin Mass Memory System (CMMS); Cabin Monitoring System (CMS); Miscellaneous Cabin Systems (MCSs). CNS may host functions such as: access to pre-departure/departure reports; e-mail/intranet/internet access; passenger database.	1	2
11.21. Information Systems (ATA 46) The units and components which furnish a means of storing, updating and retrieving digital information traditionally provided on paper, microfilm or microfiche. Includes units that are dedicated to the information storage and retrieval function such as the electronic library mass storage and controller. Does not include units or components installed for other uses and shared with other systems, such as flight deck printer or general use display. Typical examples include Air Traffic and Information Management Systems and Network Server Systems Aircraft General Information System; Flight Deck Information System; Maintenance Information System; Passenger Cabin Information System; Miscellaneous Information System.	1	2

MODULE 11B. PISTON AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS

Note 1: This module does not apply to category B3. Relevant subject matters for category B3 are defined in module 11C.

Note 2: The scope of this Module shall reflect the technology of aeroplanes pertinent to the A2 and B1.2 subcategory.

MODULE 11B. PISTON AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A2	B1.2
11.1. Theory of Flight *11.1.1. Aeroplane Aerodynamics and Flight Controls* Operation and effect of: — roll control: ailerons and spoilers, — pitch control: elevators, stabilators, variable incidence stabilisers and canards, — yaw control, rudder limiters; Control using elevons, ruddervators; High lift devices, slots, slats, flaps, flaperons; Drag inducing devices, spoilers, lift dumpers, speed brakes; Effects of wing fences, saw tooth leading edges; Boundary layer control using, vortex generators, stall wedges or leading edge devices; Operation and effect of trim tabs, balance and antibalance (leading) tabs, servo tabs, spring tabs, mass balance, control surface bias, aerodynamic balance panels.	1	2
11.1.2. High Speed Flight – N/A	-	-
11.2. Airframe Structures – General Concepts (a) Airworthiness requirements for structural strength; Structural classification, primary, secondary and tertiary; Fail safe, safe life, damage tolerance concepts; Zonal and station identification systems; Stress, strain, bending, compression, shear, torsion, tension, hoop stress, fatigue; Drains and ventilation provisions; System installation provisions; Lightning strike protection provision; Aircraft bonding.	2	2
(b) Construction methods of: stressed skin fuselage, formers, stringers, longerons, bulkheads, frames, doublers, struts, ties, beams, floor structures, reinforcement, methods of skinning, anti-corrosive protection, wing, empennage and engine attachments; Structure assembly techniques: riveting, bolting, bonding; Methods of surface protection, such as chromating, anodising, painting; Surface cleaning; Airframe symmetry: methods of alignment and symmetry checks.	1	2

MODULE 11B. PISTON AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A2	B1.2
11.3. Airframe Structures – Aeroplanes *11.3.1. Fuselage (ATA 52/53/56)* Construction and pressurisation sealing; Wing, tail-plane, pylon and undercarriage attachments; Seat installation; Doors and emergency exits: construction and operation; Windows and windscreen attachment.	1	2
11.3.2. Wings (ATA 57) Construction; Fuel storage; Landing gear, pylon, control surface and high lift/drag attachments.	1	2
11.3.3. Stabilisers (ATA 55) Construction; Control surface attachment.	1	2
11.3.4. Flight Control Surfaces (ATA 55/57) Construction and attachment; Balancing — mass and aerodynamic.	1	2
11.3.5. Nacelles/Pylons (ATA 54) Nacelles/Pylons: Construction, Firewalls, Engine mounts.	1	2
11.4. Air Conditioning and Cabin Pressurisation (ATA 21) Pressurisation and air conditioning systems; Cabin pressure controllers, protection and warning devices; Heating systems.	1	3
11.5. Instruments/Avionic Systems *11.5.1. Instrument Systems (ATA 31)* Pitot static: altimeter, air speed indicator, vertical speed indicator; Gyroscopic: artificial horizon, attitude director, direction indicator, horizontal situation indicator, turn and slip indicator, turn coordinator; Compasses: direct reading, remote reading; Angle of attack indication, stall warning systems; Glass cockpit; Other aircraft system indication.	1	2
11.5.2. Avionic Systems Fundamentals of system lay-outs and operation of: Auto Flight (ATA 22), Communications (ATA 23), Navigation Systems (ATA 34).	1	1
11.6. Electrical Power (ATA 24) Batteries Installation and Operation; DC power generation; Voltage regulation; Power distribution; Circuit protection; Inverters, transformers.	1	3

MODULE 11B. PISTON AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A2	B1.2
11.7. Equipment and Furnishings (ATA 25)		
(a) Emergency equipment requirements; Seats, harnesses and belts;	2	2
(b) Cabin lay-out; Equipment lay-out; Cabin Furnishing installation; Cabin entertainment equipment; Galley installation; Cargo handling and retention equipment; Airstairs.	1	1
11.8. Fire Protection (ATA 26)		
(a) Fire and smoke detection and warning systems; Fire extinguishing systems; System tests;	1	3
(b) Portable fire extinguisher.	1	2
11.9. Flight Controls (ATA 27) Primary controls: aileron, elevator, rudder; Trim tabs; High lift devices; System operation: manual; Gust locks; Balancing and rigging; Stall warning system.	1	3
11.10. Fuel Systems (ATA 28) System lay-out; Fuel tanks; Supply systems; Cross-feed and transfer; Indications and warnings; Refuelling and defuelling.	1	3
11.11. Hydraulic Power (ATA 29) System lay-out; Hydraulic fluids; Hydraulic reservoirs and accumulators; Pressure generation: electric, mechanical; Filters; Pressure Control; Power distribution; Indication and warning systems.	1	3
11.12. Ice and Rain Protection (ATA 30) Ice formation, classification and detection; De-icing systems: electrical, hot air, pneumatic and chemical; Probe and drain heating; Wiper systems.	1	3
11.13. Landing Gear (ATA 32) Construction, shock absorbing; Extension and retraction systems: normal and emergency; Indications and warning; Wheels, brakes, antiskid and autobraking; Tyres; Steering; Air-ground sensing.	2	3
11.14. Lights (ATA 33) External: navigation, anti collision, landing, taxiing, ice; Internal: cabin, cockpit, cargo; Emergency.	2	3

MODULE 11B. PISTON AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A2	B1.2
11.15. Oxygen (ATA 35) System lay-out: cockpit, cabin; Sources, storage, charging and distribution; Supply regulation; Indications and warnings.	1	3
11.16. Pneumatic/Vacuum (ATA 36) System lay-out; Sources: engine/APU, compressors, reservoirs, ground supply; Pressure and vacuum pumps; Pressure control; Distribution; Indications and warnings; Interfaces with other systems.	1	3
11.17. Water/Waste (ATA 38) Water system lay-out, supply, distribution, servicing and draining; Toilet system lay-out, flushing and servicing; Corrosion aspects.	2	3

MODULE 11C. PISTON AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS

Note: The scope of this module shall reflect the technology of aeroplanes pertinent to the B3 category.

MODULE 11C. PISTON AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL
	B3
11.1. Theory of Flight Aeroplane Aerodynamics and Flight Controls Operation and effect of: — roll control: ailerons, — pitch control: elevators, stabilators, variable incidence stabilisers and canards, — yaw control, rudder limiters; Control using elevons, ruddervators; High lift devices, slots, slats, flaps, flaperons; Drag inducing devices, lift dumpers, speed brakes; Effects of wing fences, saw tooth leading edges; Boundary layer control using, vortex generators, stall wedges or leading edge devices; Operation and effect of trim tabs, balance and anti-balance (leading) tabs, servo tabs, spring tabs, mass balance, control surface bias, aerodynamic balance panels.	1
11.2. Airframe Structures – General Concepts (a) Airworthiness requirements for structural strength; Structural classification, primary, secondary and tertiary; Fail safe, safe life, damage tolerance concepts; Zonal and station identification systems; Stress, strain, bending, compression, shear, torsion, tension, hoop stress, fatigue; Drains and ventilation provisions; System installation provisions; Lightning strike protection provision; Aircraft bonding; (b) Construction methods of: stressed skin fuselage, formers, stringers, longerons, bulkheads, frames, doublers, struts, ties, beams, floor structures, reinforcement, methods of skinning, anti-corrosive protection, wing, empennage and engine attachments; Structure assembly techniques: riveting, bolting, bonding; Methods of surface protection, such as chromating, anodising, painting; Surface cleaning; Airframe symmetry: methods of alignment and symmetry checks.	2 2
11.3. Airframe Structures – Aeroplanes *11.3.1. Fuselage (ATA 52/53/56)* Construction; Wing, tail-plane, pylon and undercarriage attachments; Seat installation; Doors and emergency exits: construction and operation; Window and windscreen attachment.	1
11.3.2. Wings (ATA 57) Construction; Fuel storage; Landing gear, pylon, control surface and high lift/drag attachments.	1

MODULE 11C. PISTON AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL
	B3
11.3.3. Stabilisers (ATA 55) Construction; Control surface attachment.	1
11.3.4. Flight Control Surfaces (ATA 55/57) Construction and attachment; Balancing — mass and aerodynamic.	1
11.3.5. Nacelles/Pylons (ATA 54) Nacelles/Pylons: Construction, Firewalls, Engine mounts.	1
11.4. Air Conditioning (ATA 21) Heating and ventilation systems.	1
11.5. Instruments/Avionic Ststems *11.5.1. Instrument Systems (ATA 31)* Pitot static: altimeter, air speed indicator, vertical speed indicator; Gyroscopic: artificial horizon, attitude director, direction indicator, horizontal situation indicator, turn and slip indicator, turn coordinator; Compasses: direct reading, remote reading; Angle of attack indication, stall warning systems; Glass cockpit; Other aircraft system indication.	1
11.5.2. Avionic Systems Fundamentals of system lay-outs and operation of: Auto Flight (ATA 22), Communications (ATA 23), Navigation Systems (ATA 34).	1
11.6. Electrical Power (ATA 24) Batteries Installation and Operation; DC power generation; Voltage regulation; Power distribution; Circuit protection; Inverters, transformers.	2
11.7. Equipment and Furnishings (ATA 25) Emergency equipment requirements; Seats, harnesses and belts.	2
11.8. Fire Protection (ATA 26) Portable fire extinguisher.	2
11.9. Flight Controls (ATA 27) Primary controls: aileron, elevator, rudder; Trim tabs; High lift devices; System operation: manual; Gust locks; Balancing and rigging; Stall warning system.	3

MODULE 11C. PISTON AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL
	B3
11.10. Fuel Systems (ATA 28) System lay-out; Fuel tanks; Supply systems; Cross-feed and transfer; Indications and warnings; Refuelling and defuelling.	2
11.11. Hydraulic Power (ATA 29) System lay-out; Hydraulic fluids; Hydraulic reservoirs and accumulators; Pressure generation: electric, mechanical; Filters; Pressure Control; Power distribution; Indication and warning systems.	2
11.12. Ice and Rain Protection (ATA 30) Ice formation, classification and detection; De-icing systems: electrical, hot air, pneumatic and chemical; Probe and drain heating; Wiper systems.	1
11.13. Landing Gear (ATA 32) Construction, shock absorbing; Extension and retraction systems: normal and emergency; Indications and warning; Wheels, brakes, antiskid and autobraking; Tyres; Steering.	2
11.14. Lights (ATA 33) External: navigation, anti collision, landing, taxiing, ice; Internal: cabin, cockpit, cargo; Emergency.	2
11.15. Oxygen (ATA 35) System lay-out: cockpit, cabin; Sources, storage, charging and distribution; Supply regulation; Indications and warnings.	2
11.16. Pneumatic/Vacuum (ATA 36) System lay-out; Sources: engine/APU, compressors, reservoirs, ground supply; Pressure and vacuum pumps Pressure control; Distribution; Indications and warnings; Interfaces with other systems.	2

MODULE 12. HELICOPTER AERODYNAMICS, STRUCTURES AND SYSTEMS

MODULE 12. HELICOPTER AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A3 A4	B1.3 B1.4
12.1. Theory of Flight – Rotary Wing Aerodynamics Terminology; Effects of gyroscopic precession; Torque reaction and directional control; Dissymmetry of lift, Blade tip stall; Translating tendency and its correction; Coriolis effect and compensation; Vortex ring state, power settling, overpitching; Auto-rotation; Ground effect.	1	2
12.2. Flight Control Systems Cyclic control; Collective control; Swashplate; Yaw control: Anti-Torque Control, Tail rotor, bleed air; Main Rotor Head: Design and Operation features; Blade Dampers: Function and construction; Rotor Blades: Main and tail rotor blade construction and attachment; Trim control, fixed and adjustable stabilisers; System operation: manual, hydraulic, electrical and fly-by-wire; Artificial feel; Balancing and rigging.	2	3
12.3. Blade Tracking and Vibration Analysis Rotor alignment; Main and tail rotor tracking; Static and dynamic balancing; Vibration types, vibration reduction methods; Ground resonance.	1	3
12.4. Transmission Gear boxes, main and tail rotors; Clutches, free wheel units and rotor brake; Tail rotor drive shafts, flexible couplings, bearings, vibration dampers and bearing hangers.	1	3

MODULE 12. HELICOPTER AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A3 A4	B1.3 B1.4
12.5. Airframe Structures (a) Airworthiness requirements for structural strength; Structural classification, primary, secondary and tertiary; Fail safe, safe life, damage tolerance concepts; Zonal and station identification systems; Stress, strain, bending, compression, shear, torsion, tension, hoop stress, fatigue; Drains and ventilation provisions; System installation provisions; Lightning strike protection provision;	2	2
(b) Construction methods of: stressed skin fuselage, formers, stringers, longerons, bulkheads, frames, doublers, struts, ties, beams, floor structures, reinforcement, methods of skinning and anti-corrosive protection. Pylon, stabiliser and undercarriage attachments; Seat installation; Doors: construction, mechanisms, operation and safety devices; Windows and windscreen construction; Fuel storage; Firewalls; Engine mounts; Structure assembly techniques: riveting, bolting, bonding; Methods of surface protection, such as chromating, anodising, painting; Surface cleaning. Airframe symmetry: methods of alignment and symmetry checks.	1	2
12.6. Air Conditioning (ATA 21) *12.6.1. Air supply* Sources of air supply including engine bleed and ground cart.	1	2
12.6.2. Air conditioning Air conditioning systems; Distribution systems; Flow and temperature control systems; Protection and warning devices.	1	3
12.7. Instruments/Avionic Systems *12.7.1. Instrument Systems (ATA 31)* Pitot static: altimeter, air speed indicator, vertical speed indicator; Gyroscopic: artificial horizon, attitude director, direction indicator, horizontal situation indicator, turn and slip indicator, turn coordinator; Compasses: direct reading, remote reading; Vibration indicating systems — HUMS; Glass cockpit; Other aircraft system indication.	1	2
12.7.2. Avionic Systems Fundamentals of system layouts and operation of: Auto Flight (ATA 22); Communications (ATA 23); Navigation Systems (ATA 34).	1	1

MODULE 12. HELICOPTER AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A3 A4	B1.3 B1.4
12.8. Electrical Power (ATA 24) Batteries Installation and Operation; DC power generation, AC power generation; Emergency power generation; Voltage regulation, Circuit protection. Power distribution; Inverters, transformers, rectifiers; External/Ground power.	1	3
12.9. Equipment and Furnishings (ATA 25) (a) Emergency equipment requirements; Seats, harnesses and belts; Lifting systems; (b) Emergency flotation systems; Cabin lay-out, cargo retention; Equipment lay-out; Cabin Furnishing Installation.	2 1	2 1
12.10. Fire Protection (ATA 26) Fire and smoke detection and warning systems; Fire extinguishing systems; System tests.	1	3
12.11. Fuel Systems (ATA 28) System lay-out; Fuel tanks; Supply systems; Dumping, venting and draining; Cross-feed and transfer; Indications and warnings; Refuelling and defuelling.	1	3
12.12. Hydraulic Power (ATA 29) System lay-out; Hydraulic fluids; Hydraulic reservoirs and accumulators; Pressure generation: electric, mechanical, pneumatic; Emergency pressure generation; Filters; Pressure Control; Power distribution; Indication and warning systems; Interface with other systems.	1	3
12.13. Ice and Rain Protection (ATA 30) Ice formation, classification and detection; Anti-icing and De-icing systems: electrical, hot air and chemical; Rain repellent and removal; Probe and drain heating; Wiper system.	1	3
12.14. Landing Gear (ATA 32) Construction, shock absorbing; Extension and retraction systems: normal and emergency; Indications and warning; Wheels, Tyres, brakes; Steering; Air-ground sensing; Skids, floats.	2	3

MODULE 12. HELICOPTER AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL	
	A3 A4	B1.3 B1.4
12.15. Lights (ATA 33) External: navigation, landing, taxiing, ice; Internal: cabin, cockpit, cargo; Emergency.	2	3
12.16. Pneumatic/Vacuum (ATA 36) System lay-out; Sources: engine/APU, compressors, reservoirs, ground supply; Pressure and vacuum pumps; Pressure control; Distribution; Indications and warnings; Interfaces with other systems.	1	3
12.17. Integrated Modular Avionics (ATA 42) Functions that may be typically integrated in the Integrated Modular Avionic (IMA) modules are, among others: Bleed Management, Air Pressure Control, Air Ventilation and Control, Avionics and Cockpit Ventilation Control, Temperature Control, Air Traffic Communication, Avionics Communication Router, Electrical Load Management, Circuit Breaker Monitoring, Electrical System BITE, Fuel Management, Braking Control, Steering Control, Landing Gear Extension and Retraction, Tyre Pressure Indication, Oleo Pressure Indication, Brake Temperature Monitoring, etc. Core System; Network Components.	1	2
12.18. On Board Maintenance Systems (ATA 45) Central maintenance computers; Data loading system; Electronic library system; Printing; Structure monitoring (damage tolerance monitoring).	1	2
12.19. Information Systems (ATA 46) The units and components which furnish a means of storing, updating and retrieving digital information traditionally provided on paper, microfilm or microfiche. Includes units that are dedicated to the information storage and retrieval function such as the electronic library mass storage and controller. Does not include units or components installed for other uses and shared with other systems, such as flight deck printer or general use display. Typical examples include Air Traffic and Information Management Systems and Network Server Systems. Aircraft General Information System; Flight Deck Information System; Maintenance Information System; Passenger Cabin Information System; Miscellaneous Information System.	1	2

MODULE 13. AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS

MODULE 13. AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL B2 B2L
13.1. Theory of Flight	
(a) Aeroplane Aerodynamics and Flight Controls. Operation and effect of:	1
— roll control: ailerons and spoilers;	
— pitch control: elevators, stabilators, variable incidence stabilisers and canards; and	
— yaw control: rudder limiters;	
Control using elevons, ruddervators; High lift devices: slots, slats, flaps; Drag inducing devices: spoilers, lift dumpers, speed brakes; and Operation and effect of trim tabs, servo tabs and control surface bias.	
(b) High Speed Flight. Speed of sound, subsonic flight, transonic flight, supersonic flight; Mach number, critical Mach number.	1
(c) Rotary Wing Aerodynamics. Terminology; Operation and effect of cyclic, collective and anti-torque controls.	1
13.2. Structures – General Concepts	
Fundamentals of Structural Systems	1
Zonal and Station Identification Systems	2
Electrical bonding	2
Lightning strike protection provision.	2
13.3. Autoflight (ATA 22)	
(a) Fundamentals of automatic flight control including working principles and current terminology; Command signal processing; Modes of operation: roll, pitch and yaw channels; Yaw dampers; Stability Augmentation System in helicopters; Automatic trim control; Autopilot navigation aids interface;	3
(b) Autothrottle systems; Automatic landing systems: principles and categories, modes of operation, approach, glideslope, land, go-around, system monitors and failure conditions.	3

MODULE 13. AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL B2 B2L
13.4. Communication/Navigation (ATA 23/24)	
(a) Fundamentals of radio wave propagation, antennas, transmission lines, communication, receiver and transmitter; Working principles of following systems: Very High Frequency (VHF) communication; High Frequency (HF) communication; Audio; Emergency Locator Transmitters (ELTs); Cockpit Voice Recorder (CVR); Very High Frequency Omnidirectional Range (VOR); Automatic Direction Finding (ADF); Instrument Landing System (ILS); Flight Director Systems (FDSs), Distance Measuring Equipment (DME); Area navigation, RNAV systems; Flight Management Systems (FMSs); Global Positioning System (GPS), Global Navigation Satellite Systems (GNSSs); Data Link.	3
(b) Air Traffic Control transponder, secondary surveillance radar; Traffic Alert and Collision Avoidance System (TCAS); Weather avoidance radar; Radio altimeter; Automatic Dependent Surveillance Broadcast (ADS-B).	3
(c) Microwave Landing System (MLS); Very Low Frequency and hyperbolic navigation (VLF/Omega); Doppler navigation; Inertial Navigation System (INS); ARINC (Aircraft Radio Incorporated) communication and reporting.	3
13.5. Electrical Power (ATA 24) Batteries installation and operation; Direct Current (DC) power generation; Alternating Current (AC) power generation; Emergency power generation; Voltage regulation; Power distribution; Inverters, transformers, rectifiers; Circuit protection; External/Ground power.	3
13.6. Equipment and Furnishings (ATA 25) Electronic emergency equipment requirements; Cabin entertainment equipment.	3
13.7. Flight Controls (ATA 27)	
(a) Primary controls: aileron, elevator, rudder, spoiler; Trim control; Active load control; High lift devices; Lift dump, speed brakes; System operation: manual, hydraulic, pneumatic; Artificial feel, Yaw damper, Mach trim, rudder limiter, gust locks; Stall protection systems.	2
(b) System operation: electrical, fly-by-wire.	3

MODULE 13. AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL B2 B2L
13.8. Instruments (ATA 31) Classification; Atmosphere; Terminology; Pressure-measuring devices and systems; Pitot-static systems; Altimeters; Vertical-speed indicators; Airspeed indicators; Machmeters; Altitude-reporting/alerting systems; Air data computers; Instrument pneumatic systems; Direct-reading pressure and temperature gauges; Temperature-indicating systems; Fuel-quantity-indicating systems; Gyroscopic principles; Artificial horizons; Slip indicators; Directional gyros; Ground Proximity Warning Systems (GPWSs); Compass systems; Flight Data Recording Systems (FDRSs); Electronic Flight Instrument Systems (EFISs); Instrument warning systems including master warning systems and centralised warning panels; Stall warning systems and angle of attack-indicating systems; Vibration measurement and indication; Glass cockpit.	3
13.9. Lights (ATA 33) External: navigation, landing, taxiing, ice; Internal: cabin, cockpit, cargo; Emergency.	3
13.10. On Board Maintenance Systems (ATA 45) Central maintenance computers; Data-loading system; Electronic-library system; Printing system; Structure-monitoring (damage tolerance monitoring).	3
13.11. Air Conditioning and Cabin Pressurisation (ATA 21) *13.11.1. Air supply* Sources of air supply including engine bleed, APU and ground cart.	2
13.11.2. Air Conditioning Air-conditioning systems; Air cycle and vapour cycle machines; Distribution systems; Flow, temperature and humidity control system.	 2 3 1 3
13.11.3. Pressurisation Pressurisation systems; Control and indication including control and safety valves; Cabin pressure controllers.	3
13.11.4. Safety and warning devices Protection and warning devices.	3

MODULE 13. AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL B2 B2L
13.12. Fire Protection (ATA 26)	
(a) Fire and smoke detection and warning systems; Fire-extinguishing systems; System tests;	3
(b) Portable fire extinguisher.	1
13.13. Fuel Systems (ATA 28)	
System layout;	1
Fuel tanks;	1
Supply systems;	1
Dumping, venting and draining;	1
Cross feed and transfer;	2
Indications and warnings;	3
Refuelling and defuelling;	2
Longitudinal-balance fuel systems.	3
13.14. Hydraulic Power (ATA 29)	
System layout;	1
Hydraulic fluids;	1
Hydraulic reservoirs and accumulators;	1
Pressure generation: electrical, mechanical, pneumatic;	3
Emergency pressure generation;	3
Filters;	1
Pressure control;	3
Power distribution;	1
Indication and warning systems;	3
Interface with other systems.	3

MODULE 13. AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL B2 B2L
13.15. Ice and Rain Protection (ATA 30)	
Ice formation, classification and detection;	2
Anti-icing systems: electrical, hot-air and chemical;	2
De-icing systems: electrical, hot-air, pneumatic, chemical;	3
Rain-repellent;	1
Probe and drain-heating;	3
Wiper systems.	1
13.16. Landing Gear (ATA 32)	
Construction, shock absorbing;	1
Extension and retraction systems: normal and emergency;	3
Indications and warnings;	3
Wheels, brakes, antiskid and automatic braking systems;	3
Tyres;	1
Steering;	3
Air-ground sensing.	3
13.17. Oxygen (ATA 35)	
System layout: cockpit, cabin;	3
Sources, storage, charging and distribution;	3
Supply regulation;	3
Indications and warnings.	3
13.18. Pneumatic/Vacuum (ATA 36)	
System layout;	2
Sources: engine/APU, compressors, reservoirs, ground supply;	2
Pressure control;	3
Distribution;	1
Indications and warnings;	3
Interfaces with other systems.	3

MODULE 13. AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL B2 B2L
13.19. Water/Waste (ATA 38) Water system layout, supply, distribution, servicing and draining; Toilet system layout, flushing and servicing.	2
13.20. Integrated Modular Avionics (ATA 42) Core system; Network components. Note: Functions that may be typically integrated into the IMA modules are among others: bleed management; air pressure control; air ventilation and control; avionics and cockpit ventilation control, temperature control; air traffic communication; avionics communication router; electrical load management; circuit breaker monitoring; electrical system Built-In Test Equipment (BITE); fuel management; braking control; steering control; landing gear extension and retraction; tyre pressure indication; oleo pressure indication; brake temperature monitoring.	3

MODULE 13. AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS	LEVEL B2 B2L
13.21. Cabin Systems (ATA 44) The units and components which furnish a means of entertaining the passengers and providing communication within the aircraft (Cabin Intercommunication Data System (CIDS)) and between the aircraft cabin and ground stations (Cabin Network Service (CNS)). They include voice, data, music and video transmissions. CIDS provides an interface between cockpit/cabin crew and cabin systems. These systems support data exchange between the different related Line Replaceable Units (LRUs) and they are typically operated via Flight Attendant Panels (FAPs). CNS typically consists of a server, interfacing with, among others, the following systems: Data/Radio Communication; Cabin Core System (CCS); In-flight Entertainment System (IFES); External Communication System (ECS); Cabin Mass Memory System (CMMS); Cabin Monitoring System (CMS); Miscellaneous Cabin Systems (MCSs). CNS may host functions such as: access to pre-departure/departure reports; e-mail/intranet/internet access; passenger database.	3
13.22. Information Systems (ATA 46) The units and components which furnish a means of storing, updating and retrieving digital information traditionally provided on paper, microfilm or microfiche. They include units that are dedicated to the information storage and retrieval function such as the electronic library mass storage and controller, but they do not include units or components installed for other uses and shared with other systems, such as flight deck printer or general-use display. Typical examples include: Air Traffic and Information Management systems and Network Server systems; Aircraft general information system; Flight deck information system; Maintenance information system; Passenger cabin information system; Miscellaneous information systems.	3

MODULE 14. PROPULSION

MODULE 14. PROPULSION	LEVEL
	B2 B2L
14.1. Turbine Engines (a) Constructional arrangement and operation of turbojet, turbofan, turboshaft and turbopropeller engines; (b) Electronic Engine control and fuel metering systems (FADEC).	1 2
14.2. Engine Indicating Systems Exhaust gas temperature/Interstage turbine temperature systems; Engine speed; Engine Thrust Indication: Engine Pressure Ratio, engine turbine discharge pressure or jet pipe pressure systems; Oil pressure and temperature; Fuel pressure, temperature and flow; Manifold pressure; Engine torque; Propeller speed.	2
14.3. Starting and Ignition Systems Operation of engine start systems and components; Ignition systems and components; Maintenance safety requirements.	2

MODULE 15. GAS TURBINE ENGINE

MODULE 15. GAS TURBINE ENGINE	LEVEL	
	A	B1
15.1. Fundamentals Potential energy, kinetic energy, Newton's laws of motion, Brayton cycle; The relationship between force, work, power, energy, velocity, acceleration; Constructional arrangement and operation of turbojet, turbofan, turboshaft, turboprop.	1	2
15.2. Engine Performance Gross thrust, net thrust, choked nozzle thrust, thrust distribution, resultant thrust, thrust horsepower, equivalent shaft horsepower, specific fuel consumption; Engine efficiencies; By-pass ratio and engine pressure ratio; Pressure, temperature and velocity of the gas flow; Engine ratings, static thrust, influence of speed, altitude and hot climate, flat rating, limitations.	-	2
15.3. Inlet Compressor inlet ducts Effects of various inlet configurations; Ice protection.	2	2
15.4. Compressors Axial and centrifugal types; Constructional features and operating principles and applications; Fan balancing; Operation: Causes and effects of compressor stall and surge; Methods of air flow control: bleed valves, variable inlet guide vanes, variable stator vanes, rotating stator blades; Compressor ratio.	1	2
15.5. Combustion Section Constructional features and principles of operation.	1	2
15.6. Turbine Section Operation and characteristics of different turbine blade types; Blade to disk attachment; Nozzle guide vanes; Causes and effects of turbine blade stress and creep.	2	2
15.7. Exhaust Constructional features and principles of operation; Convergent, divergent and variable area nozzles; Engine noise reduction; Thrust reversers.	1	2
15.8. Bearing and Seals Constructional features and principles of operation.	-	2

MODULE 15. GAS TURBINE ENGINE	LEVEL	
	A	B1
15.9. Lubricants and Fuels Properties and specifications; Fuel additives; Safety precautions.	1	2
15.10. Lubrication Systems System operation/lay-out and components.	1	2
15.11. Fuel Systems Operation of engine control and fuel metering systems including electronic engine control (FADEC); Systems lay-out and components.	1	2
15.12. Air Systems Operation of engine air distribution and anti-ice control systems, including internal cooling, sealing and external air services.	1	2
15.13. Starting and Ignitions Systems Operation of engine start systems and components; Ignition systems and components; Maintenance safety requirements.	1	2
15.14. Engine Indication Systems Exhaust Gas Temperature/Interstage Turbine Temperature; Engine Thrust Indication: Engine Pressure Ratio, engine turbine discharge pressure or jet pipe pressure systems; Oil pressure and temperature; Fuel pressure and flow; Engine speed; Vibration measurement and indication; Torque; Power.	1	2
15.15. Power Augmentation Systems Operation and applications; Water injection, water methanol; Afterburner systems.	-	1
15.16. Turboprop Engines Gas coupled/free turbine and gear coupled turbines; Reduction gears; Integrated engine and propeller controls; Overspeed safety devices.	1	2
15.17. Turboshaft Engines Arrangements, drive systems, reduction gearing, couplings, control systems.	1	2
15.18. Auxiliary Power Units (APUs) Purpose, operation, protective systems.	1	2

MODULE 15. GAS TURBINE ENGINE	LEVEL	
	A	B1
15.19. Powerplant Installation Configuration of firewalls, cowlings, acoustic panels, engine mounts, anti-vibration mounts, hoses, pipes, feeders, connectors, wiring looms, control cables and rods, lifting points and drains.	1	2
15.20. Fire Protection Systems Operation of detection and extinguishing systems.	1	2
15.21. Engine Monitoring and Ground Operation Procedures for starting and ground run-up; Interpretation of engine power output and parameters; Trend (including oil analysis, vibration and boroscope) monitoring; Inspection of engine and components to criteria, tolerances and data specified by engine manufacturer; Compressor washing/cleaning; Foreign Object Damage.	1	3
15.22. Engine Storage and Preservation Preservation and depreservation for the engine and accessories/systems.	-	2

MODULE 16. PISTON ENGINE

MODULE 16. PISTON ENGINE	LEVEL		
	A	B1	B3
16.1. Fundamentals Mechanical, thermal and volumetric efficiencies; Operating principles — 2 stroke, 4 stroke, Otto and Diesel; Piston displacement and compression ratio; Engine configuration and firing order.	1	2	2
16.2. Engine Performance Power calculation and measurement; Factors affecting engine power; Mixtures/leaning, pre-ignition.	1	2	2
16.3. Engine Construction Crank case, crank shaft, cam shafts, sumps; Accessory gearbox; Cylinder and piston assemblies; Connecting rods, inlet and exhaust manifolds; Valve mechanisms; Propeller reduction gearboxes.	1	2	2
16.4. Engine Fuel Systems *16.4.1. Carburettors* Types, construction and principles of operation; Icing and heating.	1	2	2
16.4.2. Fuel injection systems Types, construction and principles of operation.	1	2	2
16.4.3. Electronic engine control Operation of engine control and fuel metering systems including electronic engine control (FADEC); Systems lay-out and components.	1	2	2
16.5. Starting and Ignition Systems Starting systems, pre-heat systems; Magneto types, construction and principles of operation; Ignition harnesses, spark plugs; Low and high tension systems.	1	2	2
16.6. Induction, Exhaust and Cooling Systems Construction and operation of: induction systems including alternate air systems; Exhaust systems, engine cooling systems — air and liquid.	1	2	2

MODULE 16. PISTON ENGINE	LEVEL		
	A	B1	B3
16.7. Supercharging/Turbocharging Principles and purpose of supercharging and its effects on engine parameters; Construction and operation of supercharging/turbocharging systems; System terminology; Control systems; System protection.	1	2	2
16.8. Lubricants and Fuels Properties and specifications; Fuel additives; Safety precautions.	1	2	2
16.9. Lubrication Systems System operation/lay-out and components.	1	2	2
16.10. Engine Indication Systems Engine speed; Cylinder head temperature; Coolant temperature; Oil pressure and temperature; Exhaust Gas Temperature; Fuel pressure and flow; Manifold pressure.	1	2	2
16.11. Powerplant Installation Configuration of firewalls, cowlings, acoustic panels, engine mounts, anti-vibration mounts, hoses, pipes, feeders, connectors, wiring looms, control cables and rods, lifting points and drains.	1	2	2
16.12. Engine Monitoring and Ground Operation Procedures for starting and ground run-up; Interpretation of engine power output and parameters; Inspection of engine and components: criteria, tolerances, and data specified by engine manufacturer.	1	3	2
16.13. Engine Storage and Preservation Preservation and depreservation for the engine and accessories/systems.	-	2	1

MODULE 17A. PROPELLER

Note: This module does not apply to category B3. Relevant subject matters for category B3 are defined in module 17B.

MODULE 17A. PROPELLER	LEVEL	
	A	B1
17.1. Fundamentals Blade element theory; High/low blade angle, reverse angle, angle of attack, rotational speed; Propeller slip; Aerodynamic, centrifugal, and thrust forces; Torque; Relative airflow on blade angle of attack; Vibration and resonance.	1	2
17.2. Propeller Construction Construction methods and materials used in wooden, composite and metal propellers; Blade station, blade face, blade shank, blade back and hub assembly; Fixed pitch, controllable pitch, constant speeding propeller; Propeller/spinner installation.	1	2
17.3. Propeller Pitch Control Speed control and pitch change methods, mechanical and electrical/electronic; Feathering and reverse pitch; Overspeed protection.	1	2
17.4. Propeller Synchronising Synchronising and synchrophasing equipment.	-	2
17.5. Propeller Ice Protection Fluid and electrical de-icing equipment.	1	2
17.6. Propeller Maintenance Static and dynamic balancing; Blade tracking; Assessment of blade damage, erosion, corrosion, impact damage, delamination; Propeller treatment/repair schemes; Propeller engine running.	1	3
17.7. Propeller Storage and Preservation Propeller preservation and depreservation.	1	2

MODULE 17B. PROPELLER

Note: The scope of this Module shall reflect the propeller technology of aeroplanes pertinent to the B3 category.

MODULE 17B. PROPELLER	LEVEL
	B3
17.1. Fundamentals Blade element theory; High/low blade angle, reverse angle, angle of attack, rotational speed; Propeller slip; Aerodynamic, centrifugal, and thrust forces; Torque; Relative airflow on blade angle of attack; Vibration and resonance.	2
17.2. Propeller Construction Construction methods and material used in wooden, composite and metal propellers; Blade station, blade face, blade shank, blade back and hub assembly; Fixed pitch, controllable pitch, constant speeding propeller; Propeller/spinner installation.	2
17.3. Propeller Pitch Control Speed control and pitch change methods, mechanical and electrical/electronic; Feathering and reverse pitch; Overspeed protection.	2
17.4. Propeller Synchronising Synchronising and synchrophasing equipment.	2
17.5. Propeller Ice Protection Fluid and electrical de-icing equipment.	2
17.6. Propeller Maintenance Static and dynamic balancing; Blade tracking; Assessment of blade damage, erosion, corrosion, impact damage, delamination; Propeller treatment/repair schemes; Propeller engine running.	2
17.7. Propeller Storage and Preservation Propeller preservation and depreservation.	2

APPENDIX II – BASIC EXAMINATION STANDARD (EXCEPT FOR CATEGORY L LICENCE)

1. GENERAL

1.1. All basic examinations shall be carried out using the multi-choice question format and essay questions as specified below. The incorrect alternatives shall seem equally plausible to anyone ignorant of the subject. All of the alternatives shall be clearly related to the question and of similar vocabulary, grammatical construction and length. In numerical questions, the incorrect answers shall correspond to procedural errors such as corrections applied in the wrong sense or incorrect unit conversions: they shall not be mere random numbers.

1.2. Each multi-choice question shall have three alternative answers of which only one shall be the correct answer and the candidate shall be allowed a time per module which is based upon a nominal average of 75 seconds per question.

1.3. Each essay question requires the preparation of a written answer and the candidate shall be allowed 20 minutes to answer each such question.

1.4. Suitable essay questions shall be drafted and evaluated using the knowledge syllabus in Appendix I Modules 7A, 7B, 9A, 9B and 10.

1.5. Each question will have a model answer drafted for it, which will also include any known alternative answers that may be relevant for other subdivisions.

1.6. The model answer will also be broken down into a list of the important points known as Key Points.

1.7. The pass mark for each module and sub-module multi-choice part of the examination is 75 %.

1.8. The pass mark for each essay question is 75 % in that the candidates answer shall contain 75 % of the required key points addressed by the question and no significant error related to any required key point.

1.9. If either the multi-choice part only or the essay part only is failed, then it is only necessary to retake the multi-choice or essay part, as appropriate.

1.10. Penalty marking systems shall not be used to determine whether a candidate has passed.

1.11. A failed module may not be retaken for at least 90 days following the date of the failed module examination, except in the case of a maintenance training organisation approved in accordance with AAR-147 which conducts a course of retraining tailored to the failed subjects in the particular module when the failed module may be retaken after 30 days.

1.12. The time periods required by point 66.25 apply to each individual module examination, with the exception of those module examinations which were passed as part of another category licence, where the licence has already been issued.

1.13. The maximum number of consecutive attempts for each module is three. Further sets of three attempts are allowed with a 1 year waiting period between sets.

The applicant shall confirm in writing to the approved maintenance training organisation or the SCAA, the number and dates of attempts during the last year and the organisation where these attempts took place. The maintenance training organisation or the SCAA is responsible for checking the number of attempts within the applicable timeframes.

2. NUMBER OF QUESTIONS PER MODULE

2.1. MODULE 1 — MATHEMATICS

Category A: 16 multi-choice and 0 essay questions. Time allowed 20 minutes.

Category B1: 32 multi-choice and 0 essay questions. Time allowed 40 minutes.

Category B2 and B2L: 32 multi-choice and 0 essay questions. Time allowed 40 minutes.

Category B3: 28 multi-choice and 0 essay questions. Time allowed 35 minutes.

2.2. MODULE 2 — PHYSICS

Category A: 32 multi-choice and 0 essay questions. Time allowed 40 minutes.

Category B1: 52 multi-choice and 0 essay questions. Time allowed 65 minutes.

Category B2 and B2L: 52 multi-choice and 0 essay questions. Time allowed 65 minutes.

Category B3: 28 multi-choice and 0 essay questions. Time allowed 35 minutes.

2.3. MODULE 3 — ELECTRICAL FUNDAMENTALS

Category A: 20 multi-choice and 0 essay questions. Time allowed 25 minutes.

Category B1: 52 multi-choice and 0 essay questions. Time allowed 65 minutes.

Category B2 and B2L: 52 multi-choice and 0 essay questions. Time allowed 65 minutes.

Category B3: 24 multi-choice and 0 essay questions. Time allowed 30 minutes.

2.4. MODULE 4 — ELECTRONIC FUNDAMENTALS

Category B1: 20 multi-choice and 0 essay questions. Time allowed 25 minutes.

Category B2 and B2L: 40 multi-choice and 0 essay questions. Time allowed 50 minutes.

Category B3: 8 multi-choice and 0 essay questions. Time allowed 10 minutes.

2.5. MODULE 5 — DIGITAL TECHNIQUES/ELECTRONIC INSTRUMENT SYSTEMS

Category A: 16 multi-choice and 0 essay questions. Time allowed 20 minutes.

Category B1.1 and B1.3: 40 multi-choice and 0 essay questions. Time allowed 50 minutes.

Category B1.2 and B1.4: 20 multi-choice and 0 essay questions. Time allowed 25 minutes.

Category B2 and B2L: 72 multi-choice and 0 essay questions. Time allowed 90 minutes.

Category B3: 16 multi-choice and 0 essay questions. Time allowed 20 minutes.

2.6. MODULE 6 — MATERIALS AND HARDWARE

Category A: 52 multi-choice and 0 essay questions. Time allowed 65 minutes.

Category B1: 72 multi-choice and 0 essay questions. Time allowed 90 minutes.

Category B2 and B2L: 60 multi-choice and 0 essay questions. Time allowed 75 minutes.

Category B3: 60 multi-choice and 0 essay questions. Time allowed 75 minutes.

2.7. MODULE 7A — MAINTENANCE PRACTICES

Category A: 72 multi-choice and 2 essay questions. Time allowed 90 minutes plus 40 minutes.

Category B1: 80 multi-choice and 2 essay questions. Time allowed 100 minutes plus 40 minutes.

Category B2 and B2L: 60 multi-choice and 2 essay questions. Time allowed 75 minutes plus 40 minutes.

MODULE 7B — MAINTENANCE PRACTICES

Category B3: 60 multi-choice and 2 essay questions. Time allowed 75 minutes plus 40 minutes.

2.8. MODULE 8 — BASIC AERODYNAMICS

Category A: 20 multi-choice and 0 essay questions. Time allowed 25 minutes.

Category B1: 20 multi-choice and 0 essay questions. Time allowed 25 minutes.

Category B2 and B2L: 20 multi-choice and 0 essay questions. Time allowed 25 minutes.

Category B3: 20 multi-choice and 0 essay questions. Time allowed 25 minutes.

2.9. MODULE 9A — HUMAN FACTORS

Category A: 20 multi-choice and 1 essay question. Time allowed 25 minutes plus 20 minutes.

Category B1: 20 multi-choice and 1 essay question. Time allowed 25 minutes plus 20 minutes.

Category B2 and B2L: 20 multi-choice and 1 essay question. Time allowed 25 minutes plus 20 minutes.

MODULE 9B — HUMAN FACTORS

Category B3: 16 multi-choice and 1 essay questions. Time allowed 20 minutes plus 20 minutes.

2.10. MODULE 10 — AVIATION LEGISLATION

Category A: 32 multi-choice and 1 essay question. Time allowed 40 minutes plus 20 minutes.

Category B1: 40 multi-choice and 1 essay question. Time allowed 50 minutes plus 20 minutes.

Category B2 and B2L: 40 multi-choice and 1 essay question. Time allowed 50 minutes plus 20 minutes.

Category B3: 32 multi-choice and 1 essay questions. Time allowed 40 minutes plus 20 minutes.

2.11. MODULE 11A — TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS

Category A: 108 multi-choice and 0 essay questions. Time allowed 135 minutes.

Category B1: 140 multi-choice and 0 essay questions. Time allowed 175 minutes.

MODULE 11B — PISTON AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS

Category A: 72 multi-choice and 0 essay questions. Time allowed 90 minutes.

Category B1: 100 multi-choice and 0 essay questions. Time allowed 125 minutes.

MODULE 11C — PISTON AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS

Category B3: 60 multi-choice and 0 essay questions. Time allowed 75 minutes.

2.12. MODULE 12 — HELICOPTER AERODYNAMICS, STRUCTURES AND SYSTEMS:

Category A: 100 multi-choice and 0 essay questions. Time allowed 125 minutes.

Category B1: 128 multi-choice and 0 essay questions. Time allowed 160 minutes.

2.13. MODULE 13 — AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS

Category B2: 180 multiple-choice and 0 essay questions. Time allowed: 225 minutes. Questions and time allowed may be split into two examinations, as appropriate.

Category B2L:

System rating	Number of multiple-choice questions	Time allowed (minutes)
Basic requirements (Submodules 13.1, 13.2, 13.5 and 13.9)	28	35
COM/NAV (Submodule 13.4(a))	24	30
INSTRUMENTS (Submodule 13.8)	20	25
AUTOFLIGHT (Submodules 13.3(a) and 13.7)	28	35
SURVEILLANCE (Submodule 13.4(b))	8	10
AIRFRAME SYSTEMS (Submodules 13.11 to 13.18)	32	40

2.14. MODULE 14 — PROPULSION

Category B2 and B2L: 24 multiple-choice and 0 essay questions. Time allowed 30 minutes.

NOTE: The B2L examination for module 14 is only applicable to the ‘Instruments’ and ‘Airframe Systems’ ratings.

2.15. MODULE 15 — GAS TURBINE ENGINE

Category A: 60 multi-choice and 0 essay questions. Time allowed 75 minutes.

Category B1: 92 multi-choice and 0 essay questions. Time allowed 115 minutes.

2.16. MODULE 16 — PISTON ENGINE

Category A: 52 multi-choice and 0 essay questions. Time allowed 65 minutes.

Category B1: 72 multi-choice and 0 essay questions. Time allowed 90 minutes.

Category B3: 68 multi-choice and 0 essay questions. Time allowed 85 minutes.

2.17. MODULE 17A — PROPELLER

Category A: 20 multi-choice and 0 essay questions. Time allowed 25 minutes.

Category B1: 32 multi-choice and 0 essay questions. Time allowed 40 minutes.

MODULE 17B — PROPELLER

Category B3: 28 multi-choice and 0 essay questions. Time allowed 35 minutes.

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APPENDIX III – AIRCRAFT TYPE TRAINING AND EXAMINATION STANDARD – ON THE JOB TRAINING

1. GENERAL

Aircraft type training shall consist of theoretical training and examination, and, except for the category C ratings, practical training and assessment.

(a) Theoretical training and examination shall comply with the following requirements:

(i) Shall be conducted by a maintenance training organisation appropriately approved in accordance with AAR-147 or, when conducted by other organisations, as directly approved by the SCAA.

(ii) Shall comply, except as permitted by the differences training provided for in point (c), with the standard set out in point 3.1 of this Appendix and, if available, the relevant elements defined in the mandatory part of the operational suitability data established in accordance with AAR-21.

(iii) In the case of a category C person qualified by holding an academic degree as specified in point 66.30(a)(7), the first relevant aircraft type theoretical training shall be at the category B1 or B2 level.

(iv) Shall have been started and completed within the 3 years preceding the application for a type rating endorsement.

(b) Practical training and assessment shall comply with the following requirements:

(i) Shall be conducted by a maintenance training organisation appropriately approved in accordance with AAR-147 or, when conducted by other organisations, as directly approved by the SCAA.

(ii) Shall comply, except as permitted by the differences training described in point (c), with the standard set out in point 3.2 of this Appendix and, if available, the relevant elements defined in the mandatory part of the operational suitability data established in accordance with AAR-21.

(iii) Shall include a representative cross section of maintenance activities relevant to the aircraft type.

(iv) Shall include demonstrations using equipment, components, simulators, other training devices or aircraft.

(v) Shall have been started and completed within the 3 years preceding the application for a type rating endorsement.

(c) Differences training

(i) Differences training is the training required in order to cover the differences between two different aircraft type ratings of the same manufacturer as determined by the SCAA.

(ii) Differences training has to be defined on a case-to-case basis taking into account the requirements contained in this Appendix III in respect of both theoretical and practical elements of type rating training.

(iii) A type rating shall only be endorsed on a licence after differences training when the applicant also complies with one of the following conditions:

— having already endorsed on the licence the aircraft type rating from which the differences are being identified, or

— having completed the type training requirements for the aircraft from which the differences are being identified.

2. AIRCRAFT TYPE TRAINING LEVELS

The three levels listed below define the objectives, the depth of training and the level of knowledge that the training is intended to achieve.

— *Level 1: A brief overview of the airframe, systems and powerplant as outlined in the Systems Description Section of the Aircraft Maintenance Manual/Instructions for Continued Airworthiness.*

Course objectives: Upon completion of Level 1 training, the student will be able to:

(a) provide a simple description of the whole subject, using common words and examples, using typical terms and identify safety precautions related to the airframe, its systems and powerplant;

(b) identify aircraft manuals, maintenance practices important to the airframe, its systems and powerplant;

(c) define the general layout of the aircraft's major systems;

(d) define the general layout and characteristics of the powerplant;

(e) identify special tooling and test equipment used with the aircraft.

— *Level 2: Basic system overview of controls, indicators, principal components, including their location and purpose, servicing and minor troubleshooting. General knowledge of the theoretical and practical aspects of the subject.*

Course objectives: In addition to the information contained in the Level 1 training, at the completion of Level 2 training, the student will be able to:

(a) understand the theoretical fundamentals; apply knowledge in a practical manner using detailed procedures;

(b) recall the safety precautions to be observed when working on or near the aircraft, powerplant and systems;

(c) describe systems and aircraft handling particularly access, power availability and sources;

(d) identify the locations of the principal components;

(e) explain the normal functioning of each major system, including terminology and nomenclature;

(f) perform the procedures for servicing associated with the aircraft for the following systems: Fuel, Power Plants, Hydraulics, Landing Gear, Water/Waste, and Oxygen;

(g) demonstrate proficiency in use of crew reports and on-board reporting systems (minor troubleshooting) and determine aircraft airworthiness per the MEL/CDL;

(h) demonstrate the use, interpretation and application of appropriate documentation including instructions for continued airworthiness, maintenance manual, illustrated parts catalogue, etc.

— *Level 3: Detailed description, operation, component location, removal/installation and bite and troubleshooting procedures to maintenance manual level.*

Course objectives: In addition to the information contained in Level 1 and Level 2 training, at the completion of Level 3 training, the student will be able to:

(a) demonstrate a theoretical knowledge of aircraft systems and structures and interrelationships with other systems, provide a detailed description of the subject using theoretical fundamentals and specific examples and to interpret results from various sources and measurements and apply corrective action where appropriate;

(b) perform system, powerplant, component and functional checks as specified in the aircraft maintenance manual;

(c) demonstrate the use, interpret and apply appropriate documentation including structural repair manual, troubleshooting manual, etc.;

(d) correlate information for the purpose of making decisions in respect of fault diagnosis and rectification to maintenance manual level;

(e) describe procedures for replacement of components unique to aircraft type.

3. AIRCRAFT TYPE TRAINING STANDARD

Although aircraft type training includes both theoretical and practical elements, courses can be approved for the theoretical element, the practical element or for a combination of both.

3.1. THEORETICAL ELEMENT

(a) Objective:

On completion of a theoretical training course the student shall be able to demonstrate, to the levels identified in the Appendix III syllabus, the detailed theoretical knowledge of the aircraft's applicable systems, structure, operations, maintenance, repair, and troubleshooting according to approved maintenance data. The student shall be able to demonstrate the use of manuals and approved procedures, including the knowledge of relevant inspections and limitations.

(b) Level of training:

Training levels are those levels defined in point 2 above.

After the first type course for category C certifying staff all subsequent courses need only be to level 1.

During a level 3 theoretical training, level 1 and 2 training material may be used to teach the full scope of the chapter if required. However, during the training the majority of the course material and training time shall be at the higher level.

(c) Duration:

The theoretical training minimum tuition hours are contained in the following table:

Category	Hours
Aeroplanes with a maximum take-off mass above 30000 kg:	
B1.1	150
B1.2	120
B2	100
C	30
Aeroplanes with a maximum take-off mass equal or less than 30000 kg and above 5700 kg:	
B1.1	120
B1.2	100
B2	100
C	25
Aeroplanes with a maximum take-off mass of 5700 kg and below (*)	
B1.1	80
B1.2	60
B2	60
C	15
Helicopters (**)	
B1.3	120
B1.4	100
B2	100
C	25

(*) For non-pressurised piston engine aeroplanes below 2 000 kg MTOM, the minimum duration can be reduced by 50%.

(**) For helicopters in Group 2 (as defined in point 66.5), the minimum duration can be reduced by 30%.

For the purpose of the table above, a tuition hour means 60 minutes of teaching and exclude any breaks, examination, revision, preparation and aircraft visit.

These hours apply only to theoretical courses for complete aircraft/engine combinations according to the type rating as defined by the SCAA.

(d) Justification of course duration:

Training courses carried out in a maintenance training organisation approved in accordance with AAR-147 and courses directly approved by the SCAA shall justify their hour duration and the coverage of the full syllabus by a training needs analysis based on:

— the design of the aircraft type, its maintenance needs and the types of operation,

— detailed analysis of applicable chapters — see contents table in point 3.1(e) below,

— detailed competency analysis showing that the objectives as stated in point 3.1(a) above are fully met.

Where the training needs analysis shows that more hours are needed, course lengths shall be longer than the minimum specified in the table.

Similarly, tuition hours of differences courses or other training course combinations (such as combined B1/B2 courses), and in cases of theoretical type training courses below the figures given in point 3.1(c) above, these shall be justified to the SCAA by the training needs analysis as described above.

In addition, the course must describe and justify the following:

— The minimum attendance required to the trainee, in order to meet the objectives of the course.

— The maximum number of hours of training per day, taking into account pedagogical and human factors principles.

If the minimum attendance required is not met, the certificate of recognition shall not be issued. Additional training may be provided by the training organisation in order to meet the minimum attendance time.

(e) Content:

As a minimum, the elements in the Syllabus below that are specific to the aircraft type shall be covered. Additional elements introduced due to type variations, technological changes, etc. shall also be included.

The training syllabus shall be focused on mechanical and electrical aspects for B1 personnel, and electrical and avionic aspects for B2.

Level **Chapters**	**Aeroplanes turbine**		**Aeroplanes piston**		**Helicopters turbine**		**Helicopters piston**		**Avionics**
Licence category	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B2**
Introduction module:									
05. Time limits/maintenance checks	1	1	1	1	1	1	1	1	1
06. Dimensions / Areas (MTOM, etc.)	1	1	1	1	1	1	1	1	1

Level / Chapters	Aeroplanes turbine		Aeroplanes piston		Helicopters turbine		Helicopters piston		Avionics
Licence category	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B2**
07. Lifting and Shoring	1	1	1	1	1	1	1	1	1
08. Levelling and weighing	1	1	1	1	1	1	1	1	1
09. Towing and taxiing	1	1	1	1	1	1	1	1	1
10. Parking / mooring, Storing and Return to Service	1	1	1	1	1	1	1	1	1
11. Placards and Markings	1	1	1	1	1	1	1	1	1
12. Servicing	1	1	1	1	1	1	1	1	1
20. Standard practices – only type particular	1	1	1	1	1	1	1	1	1
Helicopters:									
18. Vibration and Noise Analysis (Blade Tracking)	-	-	-	-	3	1	3	1	-
60. Standard Practices Rotor	-	-	-	-	3	1	3	1	-
62. Rotors	-	-	-	-	3	1	3	1	1
62A. Rotors – Monitoring and indicating	-	-	-	-	3	1	3	1	3
63. Rotor Drives	-	-	-	-	3	1	3	1	1
63A. Rotor Drives – Monitoring and indicating	-	-	-	-	3	1	3	1	3

Level / Chapters	Aeroplanes turbine		Aeroplanes piston		Helicopters turbine		Helicopters piston		Avionics
Licence category	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B2**
64. Tail Rotor	-	-	-	-	3	1	3	1	1
64A. Tail Rotor – Monitoring and indicating	-	-	-	-	3	1	3	1	3
65. Tail Rotor Drive	-	-	-	-	3	1	3	1	1
65A. Tail Rotor Drive – Monitoring and indicating	-	-	-	-	3	1	3	1	3
66. Folding Blades/Pylon	-	-	-	-	3	1	3	1	-
67. Rotors Flight Control	-	-	-	-	3	1	3	1	-
53. Airframe Structure (Helicopter)	-	-	-	-	3	1	3	1	-
25. Emergency Flotation Equipment	-	-	-	-	3	1	3	1	1
Airframe structures:									
51. Standard practices and structures (damage classification, assessment and repair)	3	1	3	1	-	-	-	-	1
53. Fuselage	3	1	3	1	-	-	-	-	1
54. Nacelles / Pylons	3	1	3	1	-	-	-	-	1
55. Stabilisers	3	1	3	1	-	-	-	-	1
56. Windows	3	1	3	1	-	-	-	-	1
57. Wings	3	1	3	1	-	-	-	-	1

Level / Chapters	Aeroplanes turbine		Aeroplanes piston		Helicopters turbine		Helicopters piston		Avionics
Licence category	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B2**
27A. Flight Control Surfaces (All)	3	1	3	1	-	-	-	-	1
52. Doors	3	1	3	1	-	-	-	-	1
Zonal and Station Identification Systems.	1	1	1	1	1	1	1	1	1
Airframe systems									
21. Air Conditioning	3	1	3	1	3	1	3	1	3
21A. Air Supply	3	1	3	1	3	1	3	1	2
21B. Pressurisation	3	1	3	1	3	1	3	1	3
21C. Safety and Warning Devices	3	1	3	1	3	1	3	1	3
22. Autoflight	2	1	2	1	2	1	2	1	3
23. Communications	2	1	2	1	2	1	2	1	3
24. Electrical Power	3	1	3	1	3	1	3	1	3
25. Equipment and Furnishings	3	1	3	1	3	1	3	1	1
25A. Electronic Equipment including emergency equipment	1	1	1	1	1	1	1	1	3
26. Fire Protection	3	1	3	1	3	1	3	1	3
27. Flight Controls	3	1	3	1	3	1	3	1	2
27A. Sys. Operation: Electrical/Fly-by-Wire	3	1	-	-	-	-	-	-	3
28. Fuel Systems	3	1	3	1	3	1	3	1	2

Level / Chapters	Aeroplanes turbine		Aeroplanes piston		Helicopters turbine		Helicopters piston		Avionics
Licence category	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B2**
28A. Fuel Systems – Monitoring and indicating	3	1	3	1	3	1	3	1	3
29. Hydraulic Power	3	1	3	1	3	1	3	1	2
29A. Hydraulic Power – Monitoring and indicating	3	1	3	1	3	1	3	1	3
30. Ice and Rain Protection	3	1	3	1	3	1	3	1	3
31. Indicating / Recording Systems	3	1	3	1	3	1	3	1	3
31A. Instrument Systems	3	1	3	1	3	1	3	1	3
32. Landing Gear	3	1	3	1	3	1	3	1	2
32A. Landing Gear – Monitoring and indicating	3	1	3	1	3	1	3	1	3
33. Lights	3	1	3	1	3	1	3	1	3
34. Navigation	2	1	2	1	2	1	2	1	3
35. Oxygen	3	1	3	1	-	-	-	-	2
36. Pneumatic	3	1	3	1	3	1	3	1	2
36A. Pneumatic – Monitoring and indicating	3	1	3	1	3	1	3	1	3
37. Vacuum	3	1	3	1	3	1	3	1	2
38. Water/Waste	3	1	3	1	-	-	-	-	2
41. Water Ballast	3	1	3	1	-	-	-	-	1

Level / Chapters	Aeroplanes turbine		Aeroplanes piston		Helicopters turbine		Helicopters piston		Avionics
Licence category	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B2**
42. Integrated modular avionics	2	1	2	1	2	1	2	1	3
44. Cabin Systems	2	1	2	1	2	1	2	1	3
45. On-Board Maintenance System (or covered in 31)	3	1	3	1	3	1	-	-	3
46. Information Systems	2	1	2	1	2	1	2	1	3
50. Cargo and Accessory Compartments	3	1	3	1	3	1	3	1	1
Turbine Engine									
70. Standard Practices – Engines,	3	1	-	-	3	1	-	-	1
70A. Constructional arrangement and operation (Installation Inlet, Compressors, Combustion Section, Turbine Section, Bearings and Seals, Lubrication Systems).	3	1	-	-	3	1	-	-	1
70B. Engine Performance	3	1	-	-	3	1	-	-	1
71. Powerplant	3	1	-	-	3	1	-	-	1
72. Engine Turbine/Turbo Prop/Ducted Fan/Unducted fan	3	1	-	-	3	1	-	-	1

Level / Chapters	Aeroplanes turbine		Aeroplanes piston		Helicopters turbine		Helicopters piston		Avionics
Licence category	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B2**
73. Engine Fuel and Control	3	1	-	-	3	1	-	-	1
75. Air	3	1	-	-	3	1	-	-	1
76. Engine controls	3	1	-	-	3	1	-	-	1
78. Exhaust	3	1	-	-	3	1	-	-	1
79. Oil	3	1	-	-	3	1	-	-	1
80. Starting	3	1	-	-	3	1	-	-	1
82. Water Injections	3	1	-	-	3	1	-	-	1
83. Accessory Gear Boxes	3	1	-	-	3	1	-	-	1
84. Propulsion Augmentation	3	1	-	-	3	1	-	-	1
73A. FADEC	3	1	-	-	3	1	-	-	3
74. Ignition	3	1	-	-	3	1	-	-	3
77. Engine Indicating Systems	3	1	-	-	3	1	-	-	3
49. Auxiliary Power Units (APUs)	3	1	-	-	-	-	-	-	2
Piston Engine									
70. Standard Practices – Engines	-	-	3	1	-	-	3	1	1

Level / Chapters	Aeroplanes turbine		Aeroplanes piston		Helicopters turbine		Helicopters piston		Avionics
Licence category	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B2**
70A. Constructional arrangement and operation (Installation, Carburettors, Fuel injection systems, Induction, Exhaust and Cooling Systems, Supercharging /Turbocharging, Lubrication Systems).	-	-	3	1	-	-	3	1	1
70B. Engine Performance	-	-	3	1	-	-	3	1	1
71. Powerplant	-	-	3	1	-	-	3	1	1
73. Engine Fuel and Control	-	-	3	1	-	-	3	1	1
76. Engine Control	-	-	3	1	-	-	3	1	1
79. Oil	-	-	3	1	-	-	3	1	1
80. Starting	-	-	3	1	-	-	3	1	1
81. Turbines	-	-	3	1	-	-	3	1	1
82. Water Injections	-	-	3	1	-	-	3	1	1
83. Accessory Gear Boxes	-	-	3	1	-	-	3	1	1
84. Propulsion Augmentation	-	-	3	1	-	-	3	1	1
73A. FADEC	-	-	3	1	-	-	3	1	3
74. Ignition	-	-	3	1	-	-	3	1	3
77. Engine Indication Systems	-	-	3	1	-	-	3	1	3

Level / Chapters	Aeroplanes turbine		Aeroplanes piston		Helicopters turbine		Helicopters piston		Avionics
Licence category	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B1**	**C**	**B2**
Propellers									
60A. Standard Practices – Propellers	3	1	3	1	-	-	-	-	1
61. Propellers / Propulsion	3	1	3	1	-	-	-	-	1
61A. Propeller Construction	3	1	3	1	-	-	-	-	-
61B. Propeller Pitch Control	3	1	3	1	-	-	-	-	-
61C. Propeller Synchronising	3	1	3	1	-	-	-	-	1
61D. Propeller Electronic contro	2	1	2	1	-	-	-	-	3
61E. Propeller Ice Protection	3	1	3	1	-	-	-	-	-
61F. Propeller Maintenance	3	1	3	1	-	-	-	-	1

(f) Multimedia Based Training (MBT) methods may be used to satisfy the theoretical training element either in the classroom or in a virtual controlled environment subject to the acceptance of the SCAA.

3.2. PRACTICAL ELEMENT

(a) Objective:

The objective of practical training is to gain the required competence in performing safe maintenance, inspections and routine work according to the maintenance manual and other relevant instructions and tasks as appropriate for the type of aircraft, for example troubleshooting, repairs, adjustments, replacements, rigging and functional checks. It includes the awareness of the use of all technical literature and documentation for the aircraft, the use of specialist/special tooling and test equipment for performing removal and replacement of components and modules unique to type, including any on-wing maintenance activity.

(b) Content:

At least 50 % of the crossed items in the table below, which are relevant to the particular aircraft type, shall be completed as part of the practical training.

Tasks crossed represent subjects that are important for practical training purposes to ensure that the operation, function, installation and safety significance of key maintenance tasks is adequately addressed; particularly where these cannot be fully explained by theoretical training alone. Although the list details the minimum practical training subjects, other items may be added where applicable to the particular aircraft type.

Tasks to be completed shall be representative of the aircraft and systems both in complexity and in the technical input required to complete that task. While relatively simple tasks may be included, other more complex tasks shall also be incorporated and undertaken as appropriate to the aircraft type.

Glossary of the table: LOC: Location; FOT: Functional/Operational Test; SGH: Service and Ground Handling; R/I: Removal/Installation; MEL: Minimum Equipment List; TS: TroubleShooting.

Chapters	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
Introduction module:											
5. Time limits/maintenance checks	X/X	-	-	-	-	-	-	-	-	-	-
6. Dimension/Areas (MTOM, etc.)	X/X	-	-	-	-	-	-	-	-	-	-
7. Lifting and Shoring	X/X	-	-	-	-	-	-	-	-	-	-
8. Levelling and weighing	X/X	-	X	-	-	-	-	X	-	-	-
9. Towing and taxiing	X/X	-	X	-	-	-	-	X	-	-	-
10. Parking/ mooring, Storing and Return to Service	X/X	-	X	-	-	-	-	X	-	-	-
11. Placards and Markings	X/X	-	-	-	-	-	-	-	-	-	-
12. Servicing	X/X	-	X	-	-	-	-	X	-	-	-
20. Standard practices – only type particular	X/X	-	X	-	-	-	-	X	-	-	-
Helicopters:											
18. Vibration and Noise Analysis (Blade tracking)	X/-	-	-	-	-	X	-	-	-	-	-
60. Standard Practices Rotor – only type specific	X/X	-	X	-	-	-	-	X	-	-	-
62. Rotors	X/-	-	X	X	-	X	-	-	-	-	-

Chapters	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
62A. Rotors – Monitoring and indicating	X/X	X	X	X	X	X	-	-	X	-	X
63. Rotor Drives	X/-	X	-	-	-	X	-	-	-	-	-
63A. Rotor Drives – Monitoring and indicating	X/X	X	-	X	X	X	-	-	X	-	X
64. Tail Rotor	X/-	-	X	-	-	X	-	-	-	-	-
64A. Tail rotor – Monitoring and indicating	X/X	X	-	X	X	X	-	-	X	-	X
65. Tail Rotor Drive	X/-	X	-	-	-	X	-	-	-	-	-
65A. Tail Rotor Drive – Monitoring and indicating	X/X	X	-	X	X	X	-	-	X	-	X
66. Folding Blades/Pylon	X/-	X	X	-	-	X	-	-	-	-	-
67. Rotors Flight Control	X/-	X	X	-	X	X	-	-	-	-	-
53. Airframe Structure (Helicopter) Note: covered under Airframe structures											
25. Emergency Flotation Equipment	X/X	X	X	X	X	X	X	X	-	-	-
Airframe structures:											
51. Standard Practices and Structures (damage classification, assessment and repair)											

Chapters	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
53. Fuselage	X/-	-	-	-	-	X	-	-	-	-	-
54. Nacelles/Pylons	X/-	-	-	-	-	-	-	-	-	-	-
55. Stabilisers	X/-	-	-	-	-	-	-	-	-	-	-
56. Windows	X/-	-	-	-	-	X	-	-	-	-	-
57. Wings	X/-	-	-	-	-	-	-	-	-	-	-
27A. Flight Control Surfaces	X/-	-	-	-	-	X	-	-	-	-	-
52. Doors	X/X	X	X	-	-	-	-	X	-	-	-
Airframe systems:											
21. Air Conditioning	X/X	X	X	-	X	X	X	X	-	X	X
21A. Air supply	X/X	X	-	-	-	-	X	-	-	-	-
21B. Pressurisation	X/X	X	-	-	X	X	X	-	-	X	X
21C. Safety and warning Devices	X/X	-	X	-	-	-	-	X	-	-	-
22. Autoflight	X/X	-	-	-	X	-	X	X	X	X	X
23. Communications	X/X	-	X	-	X	-	X	X	X	X	X
24. Electrical Power	X/X	X	X	X	X	X	X	X	X	X	X
25. Equipment and Furnishings	X/X	X	X	X	-	-	X	X	X	-	-
25A. Electronic Equipment including emergency equipment	X/X	X	X	X	-	-	X	X	X	-	-
26. Fire Protection	X/X	X	X	X	X	X	X	X	X	X	X
27. Flight Controls	X/X	X	X	X	X	X	X	-	-	-	-

Chapters	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
27A. Sys. Operation: Electrical/Fly-by-Wire	X/X	X	X	X	X	-	X	-	X	-	X
28. Fuel Systems	X/X	X	X	X	X	X	X	X	-	X	-
28A. Fuel Systems – Monitoring and indicating	X/X	X	-	-	-	-	X	-	X	-	X
29. Hydraulic Power	X/X	X	X	X	X	X	X	X	-	X	-
29A. Hydraulic Power – Monitoring and indicating	X/X	X	-	X	X	X	X	-	X	X	X
30. Ice and Rain Protection	X/X	X	X	-	X	X	X	X	-	X	X
31. Indicating / Recording Systems	X/X	X	X	X	X	X	X	X	X	X	X
31A. Instrument Systems	X/X	X	X	X	X	X	X	X	X	X	X
32. Landing Gear	X/X	X	X	X	X	X	X	X	X	X	-
32A. Landing Gear – Monitoring and indicating	X/X	X	-	X	X	X	X	-	X	X	X
33. Lights	X/X	X	X	-	X	-	X	X	X	X	-
34. Navigation	X/X	-	X	-	X	-	X	X	X	X	X
35. Oxygen	X/-	X	X	X	-	-	X	X	-	-	-
36. Pneumatic	X/-	X	-	X	X	X	X	-	X	X	X
36A. Pneumatic – Monitoring and indicating	X/X	X	X	X	X	X	X	X	X	X	X
37. Vacuum	X/-	X	-	X	X	X	-	-	-	-	-

Chapters	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
38. Water/Waste	X/-	X	X	-	-	-	X	X	-	-	-
41. Water Ballast	X/-	-	-	-	-	-	-	-	-	-	-
42. Integrated modular avionics	X/X	-	-	-	-	-	X	X	X	X	X
44. Cabin Systems	X/X	-	-	-	-	-	X	X	X	X	X
45. On-Board Maintenance System (or covered in 31)	X/X	X	X	X	X	X	X	X	X	X	X
46. Information Systems	X/X	-	-	-	-	-	X	-	X	X	X
50. Cargo and Accessory Compartments	X/X	-	X	-	-	-	-	-	-	-	-
Turbine/Piston Engine Module:											
70. Standard Practices – Engines – only type particular	-	-	X	-	-	-	-	X	-	-	-
70A. Constructional arrangement and operation (Installation Inlet, Compressors, Combustion Section, Turbine Section, Bearings and Seals, Lubrication Systems)	X/X	-	-	-	-	-	-	-	-	-	-
Turbine engines:											
70B. Engine Performance	-	-	-	-	-	X	-	-	-	-	-

Chapters	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
71. Power Plant	X/-	X	X	-	-	-	-	X	-	-	-
72. Engine Turbine/Turbo Prop/Ducted Fan/Unducted fan	X/-	-	-	-	-	-	-	-	-	-	-
73. Engine Fuel and Control	X/X	X	-	-	-	-	-	-	-	-	-
73A. FADEC Systems	X/X	X	-	X	X	X	X	-	X	X	X
74. Ignition	X/X	X	-	-	-	-	X	-	-	-	-
75. Air	X/-	-	-	X	-	X	-	-	-	-	-
76. Engine Controls	X/-	X	-	-	-	X	-	-	-	-	-
77. Engine Indicating	X/X	X	-	-	X	X	X	-	-	X	X
78. Exhaust	X/-	X	-	-	X	-	-	-	-	-	-
79. Oil	X/-	-	X	X	-	-	-	-	-	-	-
80. Starting	X/-	X	-	-	X	X	-	-	-	-	-
82. Water Injection	X/-	X	-	-	-	-	-	-	-	-	-
83. Accessory Gearboxes	X/-	-	X	-	-	-	-	-	-	-	-
84. Propulsion Augmentation	X/-	X	-	-	-	-	-	-	-	-	-
Auxiliary Power Units (APUs):											
49. Auxiliary Power Units (APUs)	X/-	X	X	-	-	X	-	-	-	-	-
Piston Engines:											

Chapters	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
70. Standard Practices – Engines – only type particular	-	-	X	-	-	-	-	X	-	-	-
70A. Constructional arrangement and operation (Installation Inlet, Compressors, Combustion Section, Turbine Section, Bearings and Seals, Lubrication Systems)	X/X	-	-	-	-	-	-	-	-	-	-
70B. Engine Performance	-	-	-	-	-	X	-	-	-	-	-
71. Power Plant	X/-	X	X	-	-	-	-	X	-	-	-
73. Engine Fuel and Control	X/X	X	-	-	-	-	-	-	-	-	-
73A. FADEC Systems	X/X	X	-	X	X	X	X	X	X	X	X
74. Ignition	X/X	X	-	-	-	-	X	-	-	-	-
76. Engine Controls	X/-	X	-	-	-	X	-	-	-	-	-
77. Engine Indicating	X/X	X	-	-	X	X	X	-	-	X	X
78. Exhaust	X/-	X	-	-	X	X	-	-	-	-	-
79. Oil	X/-	-	X	X	-	-	-	-	-	-	-
80. Starting	X/-	X	-	-	X	X	-	-	-	-	-
81. Turbines	X/-	X	X	X	-	X	-	-	-	-	-
82. Water Injection	X/-	X	-	-	-	-	-	-	-	-	-

Chapters	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
83. Accessory Gearboxes	X/-	-	X	X	-	-	-	-	-	-	-
84. Propulsion Augmentation	X/-	X	-	-	-	-	-	-	-	-	-
Propellers:											
60A. Standard Practices – Propellers	-	-	-	X	-	-	-	-	-	-	-
61. Propellers / Propulsion	X/X	X	X	-	X	X	-	-	-	-	-
61A. Propellers Construction	X/X	-	X	-	-	-	-	-	-	-	-
61B. Propeller Pitch Control	X/-	X	-	X	X	X	-	-	-	-	-
61C. Propeller Synchronising	X/-	X	-	-	-	X	-	-	-	X	-
61D. Propellers Electronic control	X/X	X	X	X	X	X	X	X	X	X	X
61E. Propeller ice Protection	X/-	X	-	X	X	X	-	-	-	-	-
61F. Propeller Maintenance	X/X	X	X	X	X	X	X	X	X	X	X

4. TYPE TRAINING EXAMINATION AND ASSESSMENT STANDARD

4.1. THEORETICAL ELEMENT EXAMINATION STANDARD

After the theoretical portion of the aircraft type training has been completed, a written examination shall be performed, which shall comply with the following:

(a) Format of the examination is of the multi-choice type. Each multi-choice question shall have 3 alternative answers of which only one shall be the correct answer. The total time is based on the total number of questions and the time for answering is based upon a nominal average of 90 seconds per question.

(b) The incorrect alternatives shall seem equally plausible to anyone ignorant of the subject. All the alternatives shall be clearly related to the question and of similar vocabulary, grammatical construction and length.

(c) In numerical questions, the incorrect answers shall correspond to procedural errors such as the use of incorrect sense (+ versus -) or incorrect measurement units. They shall not be mere random numbers.

(d) The level of examination for each chapter shall be the one defined in point 2 'Aircraft type training levels'. However, the use of a limited number of questions at a lower level is acceptable.

(e) The examination shall be of the closed book type. No reference material is permitted. An exception will be made for the case of examining a B1 or B2 candidate's ability to interpret technical documents.

(f) The number of questions shall be at least 1 question per hour of instruction. The number of questions for each chapter and level shall be proportionate to:

— the effective training hours spent teaching at that chapter and level,

— the learning objectives as given by the training needs analysis.

The SCAA will assess the number and the level of the questions when approving the course.

(g) The minimum examination pass mark is 75 %. When the type training examination is split in several examinations, each examination shall be passed with at least a 75 % mark. In order to be possible to achieve exactly a 75 % pass mark, the number of questions in the examination shall be a multiple of 4.

(h) Penalty marking (negative points for failed questions) is not to be used.

(i) End of module phase examinations cannot be used as part of the final examination unless they contain the correct number and level of questions required.

4.2. PRACTICAL ELEMENT ASSESSMENT STANDARD

After the practical element of the aircraft type training has been completed, an assessment must be performed, which must comply with the following:

(a) The assessment shall be performed by designated assessors appropriately qualified.

(b) The assessment shall evaluate the knowledge and skills of the trainee.

5. TYPE EXAMINATION STANDARD

Type examination shall be conducted by training organisations appropriately approved under AAR-147 or by the SCAA.

The examination shall be oral, written or practical assessment based, or a combination thereof and it shall comply with the following requirements:

(a) Oral examination questions shall be open.

(b) Written examination questions shall be essay type or multi-choice questions.

(c) Practical assessment shall determine a person's competence to perform a task.

(d) Examinations shall be on a sample of chapters drawn from point 3 type training/examination syllabus, at the indicated level.

(e) The incorrect alternatives shall seem equally plausible to anyone ignorant of the subject. All of the alternatives shall be clearly related to the question and of similar vocabulary, grammatical construction and length.

(f) In numerical questions, the incorrect answers shall correspond to procedural errors such as corrections applied in the wrong sense or incorrect unit conversions: they shall not be mere random numbers.

(g) The examination shall ensure that the following objectives are met:

1. Properly discuss with confidence the aircraft and its systems.
2. Ensure safe performance of maintenance, inspections and routine work according to the maintenance manual and other relevant instructions and tasks as appropriate for the type of aircraft, for example troubleshooting, repairs, adjustments, replacements, rigging and functional checks such as engine run, etc., if required.
3. Correctly use all technical literature and documentation for the aircraft.
4. Correctly use specialist/special tooling and test equipment, perform removal and replacement of components and modules unique to type, including any on-wing maintenance activity.

(h) The following conditions apply to the examination:

1. The maximum number of consecutive attempts is three. Further sets of three attempts are allowed with a 1 year waiting period between sets. A waiting period of 30 days is required after the first failed attempt within one set, and a waiting period of 60 days is required after the second failed attempt.

   The applicant shall confirm in writing to the maintenance training organisation or the SCAA, the number and dates of attempts during the last year and the organisation where these attempts took place. The maintenance training organisation or the SCAA is responsible for checking the number of attempts within the applicable timeframes.
2. The type examination shall be passed and the required practical experience shall be completed within the 3 years preceding the application for the rating endorsement on the aircraft maintenance licence.
3. Type examination shall be performed with at least one examiner present. The examiner(s) shall not have been involved in the applicant's training.

(i) A written and signed report shall be made by the examiner(s) to explain why the candidate has passed or failed.

6. ON THE JOB TRAINING

On the Job Training (OJT) shall be approved by the SCAA.

It shall be conducted at and under the control of a maintenance organisation appropriately approved for the maintenance of the particular aircraft type and shall be assessed by designated assessors appropriately qualified.

It shall have been started and completed within the 3 years preceding the application for a type rating endorsement.

(a) Objective:

The objective of OJT is to gain the required competence and experience in performing safe maintenance.

(b) Content:

OJT shall cover a cross section of tasks acceptable to the SCAA. The OJT tasks to be completed shall be representative of the aircraft and systems both in complexity and in the

technical input required to complete that task. While relatively simple tasks may be included, other more complex maintenance tasks shall also be incorporated and undertaken as appropriate to the aircraft type.

Each task shall be signed off by the student and countersigned by a designated supervisor. The tasks listed shall refer to an actual job card/work sheet, etc.

The final assessment of the completed OJT is mandatory and shall be performed by a designated assessor appropriately qualified.

The following data shall be addressed on the OJT worksheets/logbook:

1. Name of Trainee;
2. Date of Birth;
3. Approved Maintenance Organisation;
4. Location;
5. Name of supervisor(s) and assessor, (including licence number if applicable);
6. Date of task completion;
7. Description of task and job card/work order/tech log, etc.;
8. Aircraft type and aircraft registration;
9. Aircraft rating applied for.

In order to facilitate the verification by the SCAA, demonstration of the OJT shall consist of (i) detailed worksheets/logbook and (ii) a compliance report demonstrating how the OJT meets the requirement of AAR-66.

AMC TO APPENDIX III TO AAR-66 'AIRCRAFT TYPE TRAINING AND EXAMINATION STANDARD. ON-THE-JOB TRAINING'

Aircraft Type Training and On-the-Job Training

The theoretical and practical training providers, as well as the OJT provider, may contract the services of a language translator in the case where training is imparted to students not conversant in the language of the training material. Nevertheless, it remains essential that the students understand all the relevant maintenance documentation.

During the performance of examinations and assessments, the assistance of the translator should be limited to the translation of the questions, but should not provide clarifications or help in relation to those questions.

AMC TO SECTION 1 OF APPENDIX III TO AAR-66 'AIRCRAFT TYPE TRAINING AND EXAMINATION STANDARD. ON-THE-JOB TRAINING'

Aircraft Type Training

1. Aircraft type training may be sub-divided in airframe and/or powerplant and/or avionics/electrical systems type training courses.

   — Airframe type training course means a type training course including all relevant aircraft structure and electrical and mechanical systems excluding the powerplant.

   — Powerplant type training course means a type training course on the bare engine, including the build-up to a quick engine change unit.

— The interface of the engine/airframe systems should be addressed by either airframe or powerplant type training course. In some cases, such as for general aviation, it may be more appropriate to cover the interface during the airframe course due to the large variety of aircraft that can have the same engine type installed.

— Avionics/electrical systems type training course means type training on avionics and electrical systems covered by but not necessarily limited to ATA (Air Transport Association) Chapters 22, 23, 24, 25, 27, 31, 33, 34, 42, 44, 45, 46, 73 and 77 or equivalent.

2. Practical training may be performed either following or integrated with the theoretical elements. However, it should not be performed before theoretical training.

3. The content of the theoretical and practical training should:

— address the different parts of the aircraft which are representative of the structure, the systems/components installed and the cabin; and

— include training on the use of technical manuals, maintenance procedures and the interface with the operation of the aircraft.

Therefore it should be based on the following elements:

— Type design including relevant type design variants, new technology and techniques;

— Feedback from in-service difficulties, occurrence reporting, etc;

— Significant applicable airworthiness directives and service bulletins;

— Known human factor issues associated with the particular aircraft type;

— Use of common and specific documentation, (when applicable, such as MMEL, AMM, MPD, TSM, SRM, WD, AFM, tool handbook), philosophy of the troubleshooting, etc.;

— Knowledge of the maintenance on-board reporting systems and ETOPS maintenance conditions where applicable;

— Use of special tooling and test equipment and specific maintenance practises including critical safety items and safety precautions;

— Significant and critical tasks/aspects from the MMEL, CDL, Fuel Tank Safety (FTS), airworthiness limitation items (ALI) including Critical Design Configuration Control Limitations (CDCCL), CMR and all ICA documentation such as MRB, MPD, SRM, AMM, etc., when applicable.

— Maintenance actions and procedures to be followed as a consequence of specific certification requirements, such as, but not limited to, RVSM (Reduced Vertical Separation Minimum) and NVIS (Night Vision Imaging Systems);

— Knowledge of relevant inspections and limitations as applicable to the effects of environmental factors or operational procedures such as cold and hot climates, wind, moisture, sand, de-icing / anti-icing, etc.

The type training does not necessarily need to include all possible customer options corresponding to the type rating described in the Appendix I to AMC to AAR-66.

4. Limited avionic system training should be included in the category B1 type training as the B1 privileges include work on avionics systems requiring simple tests to prove their serviceability.

5. Electrical systems should be included in both categories of B1 and B2 type training.

6. The theoretical and practical training should be complementary and may be:

   — Integrated or split

   — Supported by the use of training aids, such as trainers, virtual aircraft, aircraft components, synthetic training devices (STD), computer based training devices (CBT), etc.

AMC TO PARAGRAPHS 1(B), 3.2 AND 4.2 OF APPENDIX III TO AAR-66 'AIRCRAFT TYPE TRAINING AND EXAMINATION STANDARD. ON-THE-JOB TRAINING'

Practical Element of the Aircraft Type Training

1. The practical training may include instruction in a classroom or in simulators but part of the practical training should be conducted in a real maintenance or manufacturer environment.

2. The tasks should be selected because of their frequency, complexity, variety, safety, criticality, novelty, etc. The selected tasks should cover all the chapters described in the table contained in paragraph 3.2 of Appendix III to AAR-66.

3. The duration of the practical training should ensure that the content of training required by paragraph 3.2 of Appendix III to AAR-66 is completed.

   Nevertheless, for aeroplanes with a MTOM equal or above 30000kg, the duration for the practical element of a type rating training course should not be less than two weeks unless a shorter duration meeting the objectives of the training and taking into account pedagogical aspects (maximum duration per day) is justified to the SCAA.

4. The organisation providing the practical element of the type training should provide trainees a schedule or plan indicating the list of tasks to be performed under instruction or supervision. A record of the tasks completed should be entered into a logbook which should be designed such that each task or group of tasks may be countersigned by the designated assessor. The logbook format and its use should be clearly defined.

5. In paragraph 4.2 of Appendix III to AAR-66, the term 'designated assessors appropriately qualified' means that the assessors should demonstrate training and experience on the assessment process being undertaken and be authorised to do so by the organisation.

   Further guidance about the assessment and the designated assessors is provided in Appendix III to AMC to AAR-66.

6. The practical element (for powerplant and avionic systems) of the Type Rating Training may be subcontracted by the approved AAR-147 organisation under its quality system according to the provisions of point 147.145(d)(3) of AAR-147 and the corresponding Guidance Material.

AMC TO PARAGRAPH 1(C) OF APPENDIX III TO AAR-66 'AIRCRAFT TYPE TRAINING AND EXAMINATIONS STANDARD. ON-THE-JOB TRAINING'

Differences Training

Approved difference training is not required for different variants within the same aircraft type rating (as specified in Appendix I to AMC to AAR-66) for the purpose of type rating endorsement on the aircraft maintenance licence.

However, this does not necessarily mean that no training is required before a certifying staff authorisation can be issued by the maintenance organisation (refer to AMC 66.20(b)(3)).

AMC TO POINT 3.1(D) OF APPENDIX III TO AAR-66 'AIRCRAFT TYPE TRAINING AND EXAMINATIONS STANDARD. ON-THE-JOB TRAINING'

Training Needs Analysis for the Theoretical Element of the Aircraft Type Training

1. The minimum duration for the theoretical element of the type rating training course, as described in Appendix III to AAR-66, has been determined based on:
   - generic categories of aircraft and minimum standard equipment fit
   - the estimated average duration of standard courses imparted in Azerbaijan
2. The purpose of the Training Needs Analysis (TNA) is to adapt and justify the duration of the course for a specific aircraft type. This means that the TNA is the main driver for determining the duration of the course, regardless of whether it is above or below the minimum duration described in Appendix III to AAR-66.
3. The content and the duration deriving from this TNA may be supported by an analysis from the Type Certificate holder.
4. In order to approve a reduction of such minimum duration, the evaluation done by the SCAA shall be performed on a case-by-case basis appropriate to the aircraft type. For example, while it would be exceptional for a theoretical course for a transport category complex motor-powered aircraft such as an A330 or B757 to be below the minimum duration shown, it would not necessarily be exceptional in the case of a General Aviation (GA) business aircraft such as a Learjet 45 or similar. Typically the TNA for a GA aircraft course would demonstrate that a course of a shorter duration satisfies the requirements.
5. When developing the TNA the following should be considered:
   (a) The TNA should include an analysis identifying all the areas and elements where there is a need for training as well as the associated learning objectives, considering the design philosophy of the aircraft type, the operational environment, the type of operations and the operational experience. This analysis should be written in a manner which provides a reasonable understanding of which areas and elements constitute the course in order to meet the learning objectives.

   (b) As a minimum, the Training Need Analysis (TNA) should take into account all the applicable elements contained in paragraph 3.1 of AAR-66 Appendix III and associated AMCs.

   (c) The TNA should set-up the course content considering the Appendix III objectives for each level of training and the prescribed topics in the theoretical element table contained in paragraph 3.1 of AAR-66 Appendix III.

   (d) For each chapter described in the theoretical element table contained in paragraph 3.1 of AAR-66 Appendix III, the corresponding training time should be recorded.

(e) Typical documents to be used in order to identify the areas and elements where there is a need for training typically include, among others, the Aircraft Maintenance Manual, MRB report, CMRs, airworthiness limitations, Troubleshooting Manual, Structural Repair Manual, Illustrated Parts Catalogue, Airworthiness Directives and Service Bulletins.

(f) During the analysis of these documents:

— Consideration shall be given to the following typical activities:

  — Activation/reactivation;

  — Removal/Installation;

  — Testing;

  — Servicing;

  — Inspection, check and repairs;

  — Troubleshooting / diagnosis.

— For the purpose of identifying the specific elements constituting the training course, it is acceptable to use a filtering method based on criteria such as:

  — Frequency of the task;

  — Human factor issues associated to the task;

  — Difficulty of the task;

  — Criticality and safety impact of the task;

  — In-service experience;

  — Novel or unusual design features (not covered by AAR-66 Appendix I);

  — Similarities with other aircraft types;

  — Special tests and tools/equipment.

— It is acceptable to follow an approach based on:

  — Tasks or groups of tasks, or

  — Systems or subsystems or components

(g) The TNA shall:

— Identify the learning objectives for each task, group of tasks, system, subsystem or component;

— Associate the identified tasks to be trained to the regulatory requirements (table in Paragraph 3.1 of Appendix III to AAR-66);

— Organise the training into modules in a logical sequence (adequate combination of chapters as defined in Appendix III of AAR-66);

— Determine the sequence of learning (within a lesson and for the whole syllabus);

— Identify the scope of information and level of detail with regard the minimum standard to which the topics of the TNA shall be taught according to the set-up objectives.

— Address the following:

— Description of each system/component including the structure (where applicable);

— System/component operation taking into account:

(a) Complexity of the system (e.g., the need of further break down into subsystems, etc.);

(b) Design specifics which may require more detailed presentation or may contribute to maintenance errors;

(c) Normal and emergency functioning;

(d) Troubleshooting;

(e) Interpretation of indications and malfunctions;

(f) Use of maintenance publications;

(g) Identification of special tools and equipment required for servicing and maintaining the aircraft;

(h) Maintenance Practices;

(i) Routine inspections, functional or operational tests, rigging/adjustment, etc.

— Describe the following:

— The instructional methods and equipment, teaching methods and blending of the teaching methods in order to ensure the effectiveness of the training;

— The maintenance training documentation/material to be delivered to the student;

— Facilitated discussions, questioning session, additional practiced-oriented training, etc.;

— The homework, if developed;

— The training provider's resources available to the learner.

(h) It is acceptable to differentiate between issues which have to be led by an instructor and issues which may be delivered through interactive simulation training devices and/or covered by web based elements. Overall time of the course will be allocated accordingly.

(i) The maximum number of training hours per day for the theoretical element of type training shall not be more than 6 hours. A training hour means 60 minutes of tuition excluding any breaks, examination, revision, preparation and aircraft visit. In exceptional cases, the SCAA may allow deviation from this standard when it is properly justified that the proposed number of hours follows pedagogical and human factors principles. These principles are especially important in those cases where:

— Theoretical and practical training are performed at the same time;

— Training and normal maintenance duty/apprenticeship are performed at the same time.

(j) The minimum participation time for the trainee in order to meet the objectives of the course shall not be less than 90 % of the tuition hours of the theoretical training course. Additional training may be provided by the training organisation in order to meet the minimum participation time. If the minimum participation defined for the course is not met, a certificate of recognition shall not be issued.

(k) The TNA is a living process and shall be reviewed/updated based on operation feedback, maintenance occurrences, airworthiness directives, major service bulletins impacting maintenance activities or requiring new competencies for mechanics, alert service bulletins, feedback from trainees or customer satisfaction, evolution of the maintenance documentation such as MRBs, MPDs, MMs, etc. The frequency at which the TNA shall be reviewed/updated is left to the discretion of the organisation conducting the course.

NOTE: The examination is not part of the TNA. However, it shall be prepared in accordance with the learning objectives described in the TNA.

AMC TO SECTION 5 OF APPENDIX III TO AAR-66 'AIRCRAFT TYPE TRAINING AND EXAMINATIONS STANDARD. ON-THE-JOB TRAINING'

Type Examination Standard

This Section 5 'Type Examination Standard' does not apply to the examination performed as part of type training. This Section only applies to those cases where type examination is performed as a substitute for type training.

AMC TO SECTION 6 OF APPENDIX III TO AAR-66 'AIRCRAFT TYPE TRAINING AND EXAMINATIONS STANDARD. ON-THE-JOB TRAINING'

On-the-Job Training (OJT)

1. 'A maintenance organisation appropriately approved for the maintenance of the particular aircraft type' means an AAR-145 or AAR-CAO approved maintenance organisation holding an A rating for such aircraft.
2. The OJT shall include one to one supervision and shall involve actual work task performance on aircraft/components, covering line and/or base maintenance tasks.
3. The use of simulators for OJT shall not be allowed.
4. The OJT shall cover at least 50% of the tasks contained in Appendix II to AMC to AAR-66. Some tasks shall be selected from each paragraph of the Appendix II list. Tasks shall be selected among those applicable to the type of aircraft and licence (sub)category applied for. Other tasks than those in the Appendix II may be considered as a replacement when they are relevant. Typically, in addition to the variety and the complexity, the OJT tasks shall be selected because of their frequency, safety, novelty, etc.
5. Up to 50% of the required OJT may be undertaken before the aircraft theoretical type training starts.
6. The organisation providing the on-the-job training shall provide trainees a schedule or plan indicating the list of tasks to be performed under supervision. A record of the tasks completed shall be entered into a logbook which shall be designed such that each task or group of tasks is countersigned by the corresponding supervisor. The logbook format and its use shall be clearly defined.
7. Regarding the day-to-day supervision of the OJT programme in the approved maintenance organisation and the role of the supervisor(s), the following shall be considered:

   — It is sufficient that the completion of individual OJT tasks is confirmed by the direct supervisor(s), without being necessary the direct evaluation of the assessor.

   — During the day-to-day OJT performance, the supervision aims at overseeing the complete process, including task completion, use of manuals and procedures,

observance of safety measures, warnings and recommendations and adequate behaviour in the maintenance environment.

— The supervisor(s) shall personally observe the work being performed to ensure the safe completeness and shall be readily available for consultation, if needed during the OJT performance.

— The supervisor(s) shall countersign the tasks and release the maintenance tasks as the trainee is still not qualified to do so.

— The supervisor(s) shall therefore:

  — have certifying staff or support staff privileges relevant to the OJT tasks;

  — be competent for the selected tasks;

  — be safety-orientated;

  — be capable to coach (setting objectives, giving training, performing supervision, evaluating, handling trainee's reactions and cultural issues, managing objectively and positively debriefing sessions, determining the need for extra training or reorientate the training, reporting, etc.);

  — be designated by the approved maintenance organisation to carry out the supervision.

8. Regarding the assessor, the following shall be considered:

— The function of the assessor, as described in Section 6 of Appendix III to AAR-66, is to conduct the final assessment of the completed OJT. This assessment shall include confirmation of the completion of the required diversity and quantity of OJT and shall be based on the supervisor(s) reports and feedback.]

— In Section 6 of Appendix III to AAR-66, the term 'designated assessor appropriately qualified' means that the assessor shall demonstrate training and experience on the assessment process being undertaken and shall be authorised to do so by the organisation. Further guidance about the assessment and the designated assessors is provided in Appendix III to AMC to AAR-66.

9. The procedures for OJT of an AAR-145 organisation shall be included into the Exposition Manual of the approved maintenance organisation (chapter 3.15, as indicated in AMC to 145.70(a)).

APPENDIX IV – EXPERIENCE REQUIREMENTS FOR EXTENDING AN AAR-66 AIRCRAFT MAINTENANCE LICENCE

The table below shows the experience requirements for adding a new category or subcategory to an existing AAR-66 licence.

The experience shall be practical maintenance experience in operating aircraft in the subcategory relevant to the application.

The experience requirement will be reduced by 50 % if the applicant has completed an approved AAR-147 course relevant to the subcategory.

To / From	A1	A2	A3	A4	B1.1	B1.2	B1.3	B1.4	B2	B2L	B3
A1	-	6 months	6 months	6 months	2 years	6 months	2 years	1 year	2 years	1 year	6 months
A2	6 months	-	6 months	6 months	2 years	6 months	2 years	1 year	2 years	1 year	6 months
A3	6 months	6 months	-	6 months	2 years	1 year	2 years	6 months	2 years	1 year	1 year
A4	6 months	6 months	6 months	-	2 years	1 year	2 years	6 months	2 years	1 year	1 year
B1.1	None	6 months	6 months	6 months	-	6 months	6 months	6 months	1 year	1 year	6 months
B1.2	6 months	None	6 months	6 months	2 years	-	2 years	6 months	2 years	1 year	None
B1.3	6 months	6 months	None	6 months	6 months	6 months	-	6 months	1 year	1 year	6 months
B1.4	6 months	6 months	6 months	None	2 years	6 months	2 years	-	2 years	1 year	6 months
B2	6 months	6 months	6 months	6 months	1 year	1 year	1 year	1 year	-	-	1 year
B2L	6 months	6 months	6 months	6 months	1 year	1 year	1 year	1 year	1 year	-	1 year
B3	6 months	None	6 months	6 months	2 years	6 months	2 years	1 year	2 years	1 year	-

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APPENDIX V – APPLICATION FORM – SCAA FORM 19

This Appendix contains an example of the form used for applying for the aircraft maintenance licence.

AAQ-66 HAVA GƏMİSİNƏ TEXNİKİ XİDMƏT ÜZRƏ ŞƏHADƏTNAMƏSİNİN (TXŞ) İLKİN ALINMASI/DƏYİŞİKLİK EDİLMƏSİ/YENİLƏNMƏSİ ÜÇÜN ƏRİZƏ *APPLICATION FOR INITIAL/AMENDMENT OF/RENEWAL OF AAR-66 AIRCRAFT MAINTENANCE LICENCE (AML)*	**DMAA FORMA 19** *SCAA Form 19*
ƏRİZƏÇİNİN TƏFSİLATLARI: *APPLICANT'S DETAILS* **Adı:** ..... *Name* **Ünvanı:** ..... *Address* **Tel:** ..... *Tel* **E-poçt:** ..... *E-mail* **Milliyəti** ..... *Nationality* **Doğulduğu tarix və yer:** ..... *Date and Place of Birth*	
AAQ-66 TXŞ-ın TƏFSILATLARI (əgər varsa): *AAR-66 AML DETAILS (if applicable)* **Şəhadətnamə №:** ..... *Licence No* **Verilmə tarixi:** ..... *Date of Issue*	
İŞƏ GÖTÜRƏNİN TƏFSİLATLARI: *EMPLOYER'S DETAILS* **Adı:** ..... *Name* **Ünvanı:** ..... *Address* **Texniki Xidmət Təşkilatının təsdiq nömrəsi:** ..... *Maintenance Organisation Approval Reference* **Tel:** ..... *Tel* **Faks:** ..... *Fax*	
ƏRİZƏ VERİLİR: *APPLICATION FOR:* **İlkin TXŞ** ☐ *Initial AML* **TXŞ-a Dəyişiklik** ☐ *Amendment of AML* **TXŞ-ın Yenilənməsi** ☐ *Renewal of AML*	

Altkateqoriyalar *(Sub)categories*	**A**	**B1**	**B2**	**B2L**	**B3**	**C**	**L**
Turbinli Təyyarə *Aeroplane Turbine*	☐	☐					
Porşenli Təyyarə *Aeroplane Piston*	☐	☐					
Turbinli Helikopter *Turbinli Helikopter*	☐	☐					
Porşenli Helikopter *Helicopter Piston*	☐	☐					
Avionika *Avionics*			☐	☐			
Maksima Qalxma kütləsi 2 t və aşağı olan porşenli təyyarələr *Piston engine non-pressurised aeroplanes of MTOM of 2t and below*					☐		
Mürəkkəb mühərrikli hava gəmisi *Complex motor-powered aircraft*						☐	
Mürəkkəb mühərrikli hava gəmilərindən başqa hava gəmiləri *Aircraft other than complex motor-powered aircraft*							☐

B2L şəhadətnaməsinin sistem reytinqləri:
System ratings for B2L licence

1. avtomatik uçuş *autoflight*	☐
2. cihazlar *instruments*	☐
3. rabitə/naviqasiya *com/nav*	☐
4. müşahidə *surveillance*	☐
5. planer sistemləri *airframe systems*	☐

L şəhadətnaməsinin altkateqoriyaları:
L-licence subcategories

L1C: Kompozit planerlər *Composite sailplanes*	☐
L1: Planerlər *Sailplanes*	☐
L2C: Güc qurğusu ilə hərəkətə gətirilən kompozit planerlər və LA1 kompozit təyyarələri *Composite powered sailplanes and composite LA1 aeroplanes*	☐
L2: Güc qurğusu ilə hərəkətə gətirilən planerlər və LA1 təyyarələri *Powered sailplanes and LA1 aeroplanes*	☐
L3H: İsti hava aerostatları *Hot-air balloons*	☐
L3G: Qaz aerostatları Gas balloons	☐
L4H: İsti hava dirijablları Hot-air airships	☐
L4G: LA2 qaz dirijablları *LA2 gas airships*	☐
L5: LA2 qaz dirijablllarından başqa dirijabllar *Gas airships other than LA2*	☐

Növ təsdiqi / Reytinqin təsdiqi / Məhdudiyyətin götürülməsi (əgər varsa)
Type endorsement / Rating endorsement / Limitation removal (if applicable)

.....

Mən bu ərizəmlə AAQ-66 şəhadətnaməsinin ilkin alınması / dəyişiklik edilməsi / yenilənməsi üçün müraciət edirəm və bu ərizədəki bütün məlumatların doğru olduğunu təsdiq edirəm.
I wish to apply for inintial / amendment / renewal of AAR-66 AML, as indicated, and confirm that the information contained in this form was correct at the time of application.

Mən eləcədə başa düşürəm ki hər hansı yanlış məlumat məni AAQ-66 TXŞ-a malik olmaqdan məhrum edə bilər.
I also understand that any incorrect information could disqualify me from holding an AAR-66 AML.

İmza: ..... **Adı:** .....
Signed *Name*

Tarix: .....
Date

Mən aşağıdakı kreditləri iddia etmək istəyirəm (əgər varsa):
I wish to claim following credits (if applicable)

.....
.....
.....

AAQ-147 təliminə aid təcrübə kreditləri:
Experience credits for PART-147 training

.....
.....
.....

Ekvivalent imtahan sertifikatlarına əsasən imtahan krediti:
Examination credits for equivalent exam certificates

.....
.....
.....

Bütün müvafiq sertifikatları əlavə edin
Please enclose all relevant certificates

AAQ-145 Texniki Xidmət Təşkilatının tövsiyələri (əgər varsa): Bununla ərizəçinin AAQ-66 uyğun müvafiq texniki xidmət üzrə biliyə və təcrübəyə malik olduğu təsdiqlənir və DMAA-ya AAQ-66 TXŞ-nin verilməsi və ya təsdiqlənməsi tövsiyə edilir.
Reccomendation (if applicable): It is hereby certified that the applicant has met the relevant AAR-66 maintenance knowledge and experience requirments and it is recommended that the SCAA grants or endorses the PART-66 AML.

İmza: ..... **Adı:** .....
Signed *Name*

Vəzifəsi: ..... **Tarix:** .....
Position *Date*

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APPENDIX VI – AIRCRAFT MAINTENANCE LICENCE

1. An example of the aircraft maintenance licence referred to in these Rules can be found on the following pages.
2. The document shall be printed in the standardised form shown but may be reduced in size to allow it being generated by computer. When the size is reduced, care shall be taken to ensure that sufficient space is available in those places where official seals or stamps are required. Computer-generated documents need not have all the boxes incorporated when any such box remains blank, so long as the document can clearly be recognised as an aircraft maintenance licence issued in accordance with AAR-66.
3. The document may be filled in either in English or Azerbaijani (or both).
4. Each licence holder shall have a unique licence holder number, established on the basis of a national identifier and an alpha-numeric designator.
5. The document may have the pages in a different order to the one of this example and needs not have some or any divider lines as long as the information contained is positioned in such a manner that each page lay-out can clearly be identified with the format of the example of the aircraft maintenance licence contained herein.
6. The document shall be prepared by the SCAA. However, it may also be prepared by any maintenance organisation approved in accordance with AAR-145, where the SCAA agrees to this and the preparation takes place in accordance with a procedure laid down in the maintenance organisation exposition referred to in point 145.70 of AAR-145. In all cases, the SCAA shall issue the document.
7. The preparation of any change to an existing aircraft maintenance licence shall be carried out by the SCAA. However, it may also be prepared by any maintenance organisation approved in accordance with AAR-145, where the SCAA agrees to this and the preparation takes place in accordance with a procedure laid down in the maintenance organisation exposition referred to in point 145.70 of AAR-145. In all cases, the SCAA shall change the document.
8. The holder of the aircraft maintenance licence shall keep it in good condition and shall ensure that no unauthorised entries are made. Failure to comply with this rule may invalidate the license or lead to the holder not being permitted to hold any certification privilege. It may also result in prosecution under national law.
9. With regard to the aircraft type rating page of the aircraft maintenance licence, the SCAA may decide not to issue this page until the first aircraft type rating needs to be endorsed and may need to issue more than one aircraft type rating page depending on the number of type ratings to be listed.
10. Notwithstanding point 9, each page shall be in the format of this example and contain the specified information for that page.
11. The aircraft maintenance licence shall clearly indicate that the limitations are exclusions from the certification privileges. If there are no limitation applicable, the LIMITATIONS page shall state ‘No limitations’.
12. Where a pre-printer format is used for issuing the aircraft maintenance licence, any category, subcategory or type rating box which does not contain a rating entry shall be marked to show that the rating is not held.

I.
AZƏRBAYCAN RESPUBLİKASI
REPUBLIC OF AZERBAIJAN

DÖVLƏT MÜLKİ AVİASİYA AGENTLİYİ
STATE CIVIL AVIATION AGENCY

II.
AAQ-66
HAVA GƏMİSİNƏ TEXNİKİ XİDMƏT ÜZRƏ ŞƏHADƏTNAMƏ (TXŞ)
AAR-66
AIRCRAFT MAINTENANCE LICENCE

III.
Şəhadətnamənin nömrəsi
Licence No.

AZ.66.[XXXX]

VIII. ŞƏRTLƏR
Conditions

Bu şəhadətnamə TXŞ sahibi tərəfindən imzalanmalıdır və TXŞ sahibinin fotoşəkilini özündə ehtiva edən şəxsiyyəti təsdiq edən sənədlə birlikdə təqdim olunmalıdır.
This licence shall be signed by the holder and be accompanied by an identity document containing a photograph of the licence holder.

Tək 'AAQ-66 KATEQORİYALARI' adlı səhifədə qeyd olunan kateqoriyalar TXŞ sahibinə hava gəmisinə istismara buraxılış sertifikatını vermək hüququnu vermir.
Endorsement of any categories on the page(s) entitled 'AAR-66 CATEGORIES' only, does not permit the holder to issue a certificate of release to service for an aircraft.

Bu şəhadətnamə hava gəmisi reytinqləri əlavə olunduqda ICAO-nun 1 nömrəli Əlavəsinin tələblərinə uyğundur.
This licence, when endorsed with an aircraft rating, meets the intent of ICAO Annex 1.

Bu şəhadətnamənin sahibinin imtiyazları AAQ-66 sənədində müəyyən edilib.
The privileges of this licence holder are prescribed by AAR-66.

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III. Şəhadətnamənin nömrəsi:
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IX. AAQ-66 KATEQORİYALARI
AAR-66 CATEGORIES

ETİBARLILIQ *VALIDITY*	A	B1	B2	B2L	B3	L	C
Turbinli təyyarə *Aeroplanes turbine*							
Porşenli təyyarə *Aeroplanes piston*							
Turbinli helikopter *Helicopters turbine*							
Porşenli helikopter *Helicopters piston*							
Avionika *Avionics*							
Mürəkkəb mühərrikli hava gəmisi *Complex motor-powered aircraft*							
Mürəkkəb mühərrikli hava gəmilərindən başqa hava gəmiləri *Aircraft other than complex motor-powered aircraft*							
Planerlər, mühərrikli planerlər, LA1 tipli təyyarələr, aerostatlar və dirijablar *Sailplanes, powered sailplanes, LA1 aeroplanes, balloons and airships*							
Maksimal qalxma kütləsi 2000 kq və aşağı olan porşenli hermetik olmayan təyyarələr *Piston-engine non-pressurised aeroplanes of 2 000 kg MTOM and below*							

X. İmza və tarix:
Signature of issuing officer & date
XI. Möhür və yaştamp:
Seal or stamp of the SCAA
III. Şəhadətnamənin nömrəsi:
Licence No.

XII. AAQ-66 REYTİNQLƏRİ
AAR-66 RATINGS

Hava gəmisinin reytinqi / Sistem reytinqləri *Aircraft rating / System ratings*	**Kateqoriya / Altkateqoriya** *Category / Subcategory*	**Ştamp və tarix** *Stamp & date*

III. Şəhadətnamənin nömrəsi:
Licence No

XII. AAQ-66 REYTİNQLƏRİ
AAR-66 RATINGS

Hava gəmisinin reytinqi / Sistem reytinqləri *Aircraft rating / System ratings*	**Kateqoriya / Altkateqoriya** *Category / Subcategory*	**Ştamp və tarix** *Stamp & date*

III. Şəhadətnamənin nömrəsi:
Licence No

XII. AAQ-66 REYTİNQLƏRİ
AAR-66 RATINGS

Hava gəmisinin reytinqi / Sistem reytinqləri *Aircraft rating / System ratings*	**Kateqoriya / Altkateqoriya** *Category / Subcategory*	**Ştamp və tarix** *Stamp & date*

III. Şəhadətnamənin nömrəsi:
Licence No

XIII. AAQ-66 MƏHDUDİYYƏTLƏRİ
AAR-66 LIMITATIONS

Etibarlıdır:
Valid until

III. Şəhadətnamənin nömrəsi:
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APPENDIX VII – BASIC KNOWLEDGE REQUIREMENTS FOR CATEGORY L AIRCRAFT MAINTENANCE LICENCE

The definitions of the different levels of knowledge required in this Appendix are the same as those contained in point 1 of Appendix I to AAR-66.

Subcategories	Modules required for each subcategory (refer to the syllabus table below)
L1C: composite sailplanes	1L, 2L, 3L, 5L, 7L and 12L
L1: sailplanes	1L, 2L, 3L, 4L, 5L, 6L, 7L and 12L
L2C: composite powered sailplanes and composite LA1 aeroplanes	1L, 2L, 3L, 5L, 7L, 8L and 12L
L2: powered sailplanes and LA1 aeroplanes	1L, 2L, 3L, 4L, 5L, 6L, 7L, 8L and 12L
L3H: hot-air balloons	1L, 2L, 3L, 9L and 12L
L3G: gas balloons	1L, 2L, 3L, 10L and 12L
L4H: hot-air airships	1L, 2L, 3L, 8L, 9L, 11L and 12L
L4G: LA2 gas airships	1L, 2L, 3L, 8L, 10L, 11L and 12L
L5: gas airships above LA2	Basic knowledge requirements for any B1 subcategory plus 8L (for B1.1 and B1.3), 10L, 11L and 12L

MODULE 1L - BASIC KNOWLEDGE

MODULE 1L – BASIC KNOWLEDGE	LEVEL
1L.1 Mathematics Arithmetic - Arithmetical terms and signs; Methods of multiplication and division; Fractions and decimals; Factors and multiples; Weights, measures and conversion factors; Ratio and proportion; Averages and percentages; Areas and volumes, squares, cubes. Algebra - Evaluating simple algebraic expressions: addition, subtraction, multiplication and division; Use of brackets; Simple algebraic fractions. Geometry - Simple geometrical constructions; Graphical representation: nature and uses of graphs.	1
1L.2 Physics Matter Nature of matter: the chemical elements; Chemical compounds; States: solid, liquid and gaseous; Changes between states. Mechanics - Forces, moments and couples, representation as vectors; Centre of gravity; Tension, compression, shear and torsion; Nature and properties of solids, fluids and gases. Temperature - Thermometers and temperature scales: Celsius, Fahrenheit and Kelvin; Heat definition.	1
1L.3 Electrics DC Circuits - Ohm's law, Kirchoff's voltage and current laws; Significance of the internal resistance of a supply; Resistance/resistor; Resistor colour code, values and tolerances, preferred values, wattage ratings; Resistors in series and parallel.	1
1L.4 Aerodynamics/aerostatics International Standard Atmosphere (ISA), application to aerodynamics and aerostatics. Aerodynamics - Airflow around a body; Boundary layer, laminar and turbulent flow; Thrust, weight, aerodynamic resultant; Generation of lift and drag: angle of attack, polar curve, stall. Aerostatics - Effect on envelopes, wind effect, altitude and temperature effects.	1

MODULE 1L – BASIC KNOWLEDGE	LEVEL
1L.5 Workplace safety and environmental protection Safe working practices and precautions when working with electricity, gases (especially oxygen), oils and chemicals; Labelling, storage and disposal of hazardous (to safety and environment) materials; Remedial action in the event of a fire or another accident with one or more hazards, including knowledge of extinguishing agents.	2

MODULE 2L – HUMAN FACTORS

MODULE 2L – HUMAN FACTORS	LEVEL
2L.1 General The need to take human factors into account; Incidents attributable to human factors/human error; Murphy's Law.	1
2L.2 Human performance and limitations Vision, hearing, information processing, attention and perception, memory.	1
2L.3 Social psychology Responsibility, motivation, peer pressure, teamwork.	1
2L.4 Factors affecting performance Fitness/health, stress, sleep, fatigue, alcohol, medication, drug abuse.	1
2L.5 Physical environment Working environment (climate, noise, illumination).	1

MODULE 3L – AVIATION LEGISLATION

MODULE 3L – AVIATION LEGISLATION	LEVEL
3L.1 Regulatory framework Role of the SCAA; Applicable parts of AAR-M and AAR-66.	1
3L.2 Repairs and modifications Approval of changes (repairs and modifications); Standard changes and standard repairs.	2
3L.3 Maintenance data Airworthiness Directives (ADs), Instructions for Continuing Airworthiness (ICA) (AMM, IPC, etc.); Flight Manual; Maintenance records.	2

MODULE 4L – AIRFRAME WOODEN/METAL TUBE AND FABRIC

MODULE 4L – AIRFRAME WOODEN / METAL TUBE AND FABRIC	LEVEL
4L.1 Airframe wooden/combination of metal tube and fabric Timber, plywood, adhesives, preservation, power line, properties, machining; Covering (covering materials, adhesives and finishes, natural and synthetic covering materials and adhesives); Paint, assembly and repair processes; Recognition of damages from overstressing of wooden/metal-tube and fabric structures; Deterioration of wood components and coverings; Crack test (optical procedure, e.g., magnifying glass) of metal components. Corrosion and preventive methods. Health and fire safety protections.	2
4L.2 Material Types of wood, stability, and machining properties; Steel and light alloy tubes and fittings, fracture inspections of welded seams; Plastics (overview, understanding of the properties); Paints and paint removal; Glues, adhesives; Covering materials and technologies (natural and synthetic polymers).	2
4L.3 Identifying damage Overstress of wood / metal-tubing and fabric structures; Load transfers; Fatigue strength and crack testing.	3
4L.4 Performance of practical activities Locking of pins, screws, castellated nuts, turnbuckles; Thimble splice; Nicopress and Talurit repairs; Repair of coverings; Repair of transparencies; Repair exercises (plywood, stringer, handrails, skins); Aircraft Rigging. Calculation of control surface mass balance and range of movement of the control surfaces, measurement of operating forces; Performance of 100-hours/annual inspections on a wood or combination of metal-tube and fabric airframe.	2

MODULE 5L – AIRFRAME COMPOSITE

MODULE 5L – AIRFRAME COMPOSITE	LEVEL
5L.1 Airframe fibre-reinforced plastic (FRP) Basic principles of FRP construction; Resins (Epoxy, polyester, phenolic resins, vinyl ester resins); Reinforcement materials glass, aramide and carbon fibres, features; Fillers; Supporting cores (balsa, honeycombs, foamed plastics); Constructions, load transfers (solid FRP shell, sandwiches); Identification of damage during overstressing of components; Procedure for FRP projects (according to Maintenance Organisation Manual) including storage conditions for material.	2
5L.2 Material Thermosetting plastics, thermoplastic polymers, catalysts; Understanding properties, machining technologies, detaching, bonding, welding; Resins for FRP: epoxy resins, polyester resins, vinyl ester resins, phenolic resins; Reinforcement materials; From elementary fibre to filaments (release agent, finish), weaving patterns; Properties of individual reinforcement materials (E-glass fibre, aramide fibre, carbon fibre); Problem with multiple-material systems, matrix; Adhesion/cohesion, various behaviours of fibre materials; Filling materials and pigments; Technical requirements for filling materials; Property change of the resin composition through the use of E-glass, micro balloon, aerosols, cotton, minerals, metal powder, organic substances; Paint assembly and repair technologies; Support materials; Honeycombs (paper, FRP, metal), balsa wood, Divinycell (Contizell), development trends.	2
5L.3 Assembly of Fibre-Reinforced Composite-Structure Airframes Solid shell; Sandwiches; Assembly of aerofoils, fuselages, control surfaces.	2
5L.4 Identifying Damage Behaviour of FRP components in the event of overstressing; Identifying delaminations, loose bonds; Bending vibration frequency in aerofoils; Load transfer; Frictional connection and positive locking; Fatigue strength and corrosion of metal parts; Metal bonding, surface finishing of steel and aluminium components during bonding with FRP.	3
5L.5 Mold making Plaster molds, mold ceramics; GFK molds, Gel-coat, reinforcement materials, rigidity problems; Metal molds; Male and female molds.	2

MODULE 5L – AIRFRAME COMPOSITE	LEVEL
5L.6 Performance of practical activities Locking of pin, screws, castellated nuts, turnbuckles; Thimble splice; Nicopress and Talurit repairs; Repair of coverings; Repair of solid FRP shells; Mold fabrication/molding of a component (e.g. fuselage nose, landing gear fairing, wing tip and winglet); Repair of sandwich shell where interior and exterior layer are damaged; Repair of sandwich shell by pressing with a vacuum bag; Transparency repair (PMMA) with one- and two-component adhesive; Bonding of transparency with the canopy frame; Tempering of transparencies and other components; Performance of a repair on a sandwich shell (minor repair less than 20 cm); Aircraft Rigging. Calculation of control surface mass balance and range of movement of the control surfaces, measurement of operating forces; Performance of 100-hour/annual inspections on an FRP airframe.	2

MODULE 6L – AIRFRAME METAL

MODULE 6L – AIRFRAME METAL	LEVEL
6L.1 Airframe metal Metallic materials and semi-finished products, machining methods; Fatigue strength and crack test; Assembly of metal-construction components, riveted joints, adhesive joints; Identification of damage to overstressed components, effects of corrosion; Health and fire protection.	2
6L.2 Material Steel and its alloys; Light metals and their light alloys; Rivet materials; Plastics; Colours and paints; Metal adhesives; Types of corrosion; Covering materials and technologies (natural and synthetic).	2
6L.3 Identifying damage Overstressed metal airframes, levelling, measurement of symmetry; Load transfers; Fatigue strength and crack test; Identifying loose riveted joints.	3
6L.4 Assembly of metal- and composite-construction airframes Skins; Frames; Stringers and longerons; Frame construction; Problems in multiple-material systems.	2
6L.5 Fasteners Classifications of fits and clearances; Metric and imperial measuring systems; Oversize bolt.	2
6L.6 Performance of practical activities Locking of pins, screws, castellated nuts, turnbuckles; Thimble splice; Nicopress and Talurit repairs; Repair of coverings, surface damage, stop drilling techniques; Repair of transparencies; Cutting out sheet metals (aluminiums and light alloys, steel and alloys); Folding bending, edging, beating, smoothening, beading; Repair riveting of metal airframes according to repair instruction or drawings; Evaluation of rivet errors; Aircraft Rigging. Calculation of control surface mass balance and range of movement of the control surfaces, measurement of operating forces; Performance of 100-hour/annual inspections on a metal airframe.	2

MODULE 7L – AIRFRAME GENERAL

MODULE 7L – AIRFRAME GENERAL	LEVEL
7L.1 Flight control system Cockpit controls: controls in cockpit, colour markings, knob shapes; Flight controls surfaces, flaps, air brakes surfaces, controls, hinges, bearings, brackets, push-pull rods, bell cranks, horns, pulleys, cables, chains, tubes, rollers, tracks, jack screws, surfaces, movements, lubrication, stabilisers, balancing of controls; Combination of controls: flap ailerons, flap air brakes; Trim systems.	3
7L.2 Airframe Landing gear: characteristics of landing gears and shock absorber strut, extension, brakes, drum, disks, wheel, tyre, retraction mechanism, electrical retraction, emergency; Wing to fuselage mounting points, empennage (fin and tail plane) to fuselage mounting points, control surface mounting points; Permissible maintenance measures; Towing: towing/lifting equipment/mechanism; Cabin: seats and safety harness, cabin arrangement, windshields, windows, placards, baggage compartment, cockpit controls, cabin air system, blower; Water ballast: water reservoirs, lines, valves, drains, vents, tests; Fuel system: tanks, lines, filters, vents, drains, filling, selector valve, pumps, indication, tests, bonding; Hydraulics: system layout, accumulators, pressure and power distribution, indication; Liquid and gas: hydraulic, other fluids, levels, reservoir, lines, valves, filter; Protections: firewalls, fire protection, lightning strike bonding, turnbuckles, locking devices, dischargers.	2
7L.3 Fasteners Reliability of pins, rivets, screws; Control cables, turnbuckles; Quick-release couplings (L'Hotellier, SZD, Poland).	2
7L.4 Locking equipment Admissibility of locking methods, locking pins, spring steel pins, locking wire, stop nuts, paint; Quick-release couplings.	2
7L.5 Weight and balance levelling	2
7L.6 Rescue systems	2

MODULE 7L – AIRFRAME GENERAL	LEVEL
7L.7 On-board modules Pitot-static system, vacuum/dynamic system, hydrostatic test; Flight instruments: airspeed indicator, altimeter, vertical-speed indicator, connection and functioning, markings; Arrangement and display, panel, electrical wires; Gyroscopes, filters, indicating instruments; testing of function; Magnetic compass: installation and compass swing; Sailplanes: acoustic vertical-speed indicator, flight recorders, anticollision aid; Oxygen system.	2
7L.8 On-board modules installation and connections Flight instruments, mounting requirements); Electric wiring, power sources, types of storage batteries, electrical parameters, electric generator, circuit breaker, energy balance, earth/ground, connectors, terminals, warnings, fuses, lamps, lightings, switches, voltmeters, ampere meters, electrical gauges.	2
7L.9 Piston engine propulsion Interface between power plant and airframe.	2
7L.10 Propeller Inspection; Replacement; Balancing.	2
7L.11 Retraction system Propeller position control; Engine and/or propeller retraction system.	2
7L.12 Physical inspection procedures Cleaning, use of lighting and mirrors; Measuring tools; Measure of controls deflection; Torque of screws and bolts; Wear of bearings; Inspection equipment; Calibration of measuring tools.	2

MODULE 8L – POWER PLANT

MODULE 8L – POWER PLANT	LEVEL
8L.1 Noise limits Explanation of the concept of 'noise level'; Noise certificate; Enhanced sound proofing; Possible reduction of sound emissions.	1
8L.2 Piston engines Four-stroke spark ignition engine, air-cooled engine, fluid-cooled engine; Two-stroke engine; Rotary-piston engine; Efficiency and influencing factors (pressure–volume diagram, power curve); Noise control devices.	2
8L.3 Propeller Blade, spinner, backplate, accumulator pressure, hub; Operation of propellers; Variable-pitch propellers, ground and in-flight adjustable propellers, mechanically, electrically and hydraulically; Balancing (static, dynamic); Noise problems.	2
8L.4 Engine control devices Mechanical control devices; Electrical control devices; Tank displays; Functions, characteristics, typical errors and error indications.	2
8L.5 Hosepipes Material and machining of fuel and oil hoses; Control of life limit.	2
8L.6 Accessories Operation of magneto ignition; Control of maintenance limits; Operation of carburettors; Maintenance instructions on characteristic features; Electric fuel pumps; Operation of propeller controls; Electrically operated propeller control; Hydraulically operated propeller control.	2
8L.7 Ignition system Constructions: coil ignition, magneto ignition, and thyristor ignition; Efficiency of the ignition and preheat system; Modules of the ignition and preheat system; Inspection and testing of a spark plug.	2
8L.8 Induction and exhaust systems Operation and assembly; Silencers and heater installations; Nacelles and cowlings; Inspection and test; CO emission test.	2

MODULE 8L – POWER PLANT	LEVEL
8L.9 Fuels and lubricants Fuel characteristics; Labelling, environmentally friendly storage; Mineral and synthetic lubricating oils and their parameters: labelling and characteristics, application; Environmentally friendly storage and proper disposal of used oil.	2
8L.10 Documentation Manufacturer documents for the engine and propeller; Instructions for Continuing Airworthiness (ICA); Aircraft Flight Manuals (AFMs) and Aircraft Maintenance Manuals (AMMs); Time Between Overhaul (TBO); Airworthiness Directives (ADs), technical notes and service bulletins.	2
8L.11 Illustrative material Cylinder unit with valve; Carburettor; High-tension magneto; Differential-compression tester for cylinders; Overheated/damaged pistons; Spark plugs of engines that were operated differently.	2
8L.12 Practical experience Work safety/accident prevention (handling of fuels and lubricants, start-up of engines); Rigging-engine control rods and Bowden cables; Setting of no-load speed; Checking and setting the ignition point; Operational test of magnetos; Checking the ignition system; Testing and cleaning of spark plugs; Performance of the engine tasks contained in an aeroplane 100-hour/annual inspection; Cylinder compression test; Static test and evaluation of the engine run; Documentation of maintenance work including replacement of components.	2
8L.13 Gas exchange in internal-combustion engines Four-stroke reciprocating engine and control units; Energy losses; Ignition timing; Direct flow behaviour of control units; Wankel engine and control units; Two-stroke engine and control units; Scavenging; Scavenging blower; Idle range and power range.	2

MODULE 8L – POWER PLANT	LEVEL
8L.14 Ignition, combustion and carburation Ignition; Spark plugs; Ignition system; Combustion process; Normal combustion; Efficiency and medium pressure; Engine knock and octane rating; Combustion chamber shapes; Fuel/air mix in the carburettor; Carburettor principle, carburettor equation; Simple carburettor; Problems of the simple carburettor and their solutions; Carburettor models; Fuel/air mix during injection; Mechanically controlled injection; Electronically controlled injection; Continuous injection; Carburettor-injection comparison.	2
8L.15 Flight instruments in aircraft with injection engines Special flight instruments (injection engine); Interpretation of indications in a static test; Interpretation of indications in flight at various flight levels.	2
8L.16 Maintenance of aircraft with injection engines Documentation, manufacturer documents, etc.; General maintenance instructions (hourly inspections); Functional tests; Ground test run; Test flight; Troubleshooting in the event of faults in the injection system and their correction.	2
8L.17 Workplace safety and safety provisions Work safety and safety provisions for work on injection systems.	2
8L.18 Visual aids Carburettor; Components of injection system; Aircraft with injection engine; Tool for work on injection systems.	2
8L.19 Electrical propulsion Energy system, accumulators, installation; Electrical motor; Heat, noise and vibration checks; Testing windings; Electrical wiring and control systems; Pylon, extension and retraction systems; Motor/propeller brake systems; Motor ventilation systems; Practical experience of 100-hour/annual inspections.	2
8L.20 Jet propulsion Engine installation; Pylon, extension and retraction systems; Fire protection; Fuel systems including lubrication; Engine starting systems, gas assist; Engine damage assessment; Engine servicing; Engine removal / refit and test; Practical experience of conditional / run time / annual inspections; Conditional inspections.	2
8L.21 Full authority digital engine control (FADEC)	2

MODULE 9L – BALLOON / AIRSHIP HOT AIR

MODULE 9L – BALLOON / AIRSHIP HOT AIR	LEVEL
9L.1 Basic principles and assembly of hot-air balloons/airships Assembly and individual parts; Envelopes; Envelope Materials; Envelope Systems; Conventional and special shapes; Fuel System; Burner, burner frame and burner support rods; Compressed-gas cylinders and compressed-gas hoses; Basket and alternative devices (seats); Rigging accessories; Maintenance and servicing tasks; Annual/100-hour inspection; Log Books; Aircraft Flight Manuals (AFMs) and Aircraft Maintenance Manuals (AMMs); Rigging and launch preparation (launch restraint); Launch.	3
9L.2 Practical training Operating controls, maintenance and servicing jobs (according to flight manual).	3
9L.3 Envelope Fabrics; Seams; Load tapes, rip stoppers; Crown rings; Parachute valve and fast-deflation systems; Ripping panel; Turning vent; Diaphragms/catenaries (special shapes and airships); Rollers, pulleys; Control and shroud lines; Knots; Temperature indication label, temperature flag, envelope thermometer; Flying wires; Fittings, karabiners.	3
9L.4 Burner and fuel system Burner coils; Blast, liquid and pilot valves; Burners/jets; Pilot lights/vaporisers/jets; Burner frame; Fuel lines/hoses; Fuel cylinders, valves and fittings.	3
9L.5 Basket and basket suspension (incl. alternative devices) Types of baskets (incl. alternative devices); Basket materials: cane and willow, hide, wood, trim materials, suspension cables; Seats, roller bearings; Karabiner, shackle and pins; Burner support rods; Fuel cylinder straps; Accessories.	3
9L.6 Equipment Fire extinguisher, fire blanket; Instruments (single or combined).	3
9L.7 Minor repairs Stitching; Bonding; Basket hide/trim repairs.	3

MODULE 9L – BALLOON / AIRSHIP HOT AIR	LEVEL
9L.8 Procedures for physical inspection Cleaning, use of lighting and mirrors; Measuring tools; Measure of controls deflection (only airships); Torque of screws and bolts; Wear of bearings (only airships); Inspection equipment; Calibration of measuring tools; Fabric Grab Test.	2

MODULE 10L – BALLOON / AIRSHIP GAS (FREE/TETHERED)

MODULE 10L – BALLOON / AIRSHIP GAS (FREE/TETHERED)	LEVEL
10L.1 Basic principles and assembly of gas balloons/airships Assembly of individual parts; Envelope and netting material; Envelope, ripping panel, emergency opening, cords and belts; Rigid gas valve; Flexible gas valve (parachute); Netting; Load ring; Basket and accessories (including alternative devices); Electrostatic discharge paths; Mooring line and drag rope; Maintenance and servicing; Annual inspection; Flight papers; Aircraft Flight Manuals (AFMs) and Aircraft Maintenance Manuals (AMMs); Rigging and launch preparation; Launch.	3
10L.2 Practical training Operating controls; Maintenance and servicing jobs (according to AMM and AFM); Safety rules when using hydrogen as lifting gas.	3
10L.3 Envelope Fabrics; Poles and reinforcement of pole; Ripping panel and cord; Parachute and shroud lines; Valves and cords; Filler neck, Poeschel-ring and cords; Electrostatic discharge paths.	3
10L.4 Valve Springs; Gaskets; Screwed joints; Control lines; Electrostatic discharge paths.	3
10L.5 Netting or rigging (without net) Kinds of net and other lines; Mesh sizes and angles; Net ring; Knotting methods; Electrostatic discharge paths.	3
10L.6 Load ring	3
10L.7 Basket (incl. alternative devices) Kinds of baskets (incl. alternative devices); Strops and toggles; Ballast system (bags and supports); Electrostatic discharge paths.	3
10L.8 Ripping cord and valve cords	3
10L.9 Mooring line and drag rope	3
10L.10 Minor repairs Bonding; Splicing hemp ropes.	3
10L.11 Equipment Instruments (single or combined).	3

MODULE 10L – BALLOON / AIRSHIP GAS (FREE/TETHERED)	LEVEL
10L.12 Tether cable (tethered gas balloons (TGB) only) Kinds of cables; Acceptable damage of cable; Cable swivel; Cable clamps.	3
10L.13 Winch (tethered gas balloons only) Kinds of winches; Mechanical system; Electrical system; Emergency system; Grounding/ballasting of winch.	3
10L.14 Procedures for physical inspection Cleaning, use of lighting and mirrors; Measuring tools; Measure of controls deflection (only airships); Torque of screws and bolts; Wear of bearings (only airships); Inspection equipment; Calibration of measuring tools; Fabric grab test.	2

MODULE 11L – AIRSHIP HOT AIR / GAS

MODULE 11L – AIRSHIP HOT AIR / GAS	LEVEL
11L.1 Basic principles and assembly of small airships Envelope, ballonets; Valves, openings; Gondola; Propulsion; Aircraft Flight Manuals (AFMs) and Aircraft Maintenance Manuals (AMMs); Rigging and launch preparation.	3
11L.2 Practical training Operating controls; Maintenance and servicing jobs (according to AMM and AFM).	3
11L.3 Envelope Fabrics; Ripping panel and cords; Valves; Catenary system.	3
11L.4 Gondola (incl. alternative devices) Kinds of gondolas (incl. alternative devices); Airframe types and materials; Identification of damage.	3
11L.5 Electrical system Basics about on-board electrical circuits; Electrical sources (accumulators, fixation, ventilation, corrosion); Lead, nickel-cadmium (NiCd) or other accumulators, dry batteries; Generators; Wiring, electrical connections; Fuses; External power source; Energy balance.	3
11L.6 Propulsion Fuel system: tanks, lines, filters, vents, drains, filling, selector valve, pumps, indication, tests, bonding; Propulsion instruments; Basics about measuring and instruments; Revolution measuring; Pressure measuring; Temperature measuring; Available fuel/power measuring.	3
11L.7 Equipment Fire extinguisher, fire blanket; Instruments (single or combined).	3

MODULE 12L – RADIO COM / ELT / TRANSPONDER / INSTRUMENTS

MODULE 12L – RADIO COM / ELT / TRANSPONDER / INSTRUMENTS	LEVEL
12L.1 Radio Com/ELT Channel spacing; Basic functional test; Batteries; Testing and maintenance requirements.	2
12L.2 Transponder Basic operation; Typical portable configuration including antenna; Explanation of Modes A, C, S; Testing and maintenance requirements.	2
12L.3 Instruments Handheld altimeter/variometers; Batteries; Basic functional test.	2

APPENDIX VIII – BASIC EXAMINATION STANDARD FOR CATEGORY L AIRCRAFT MAINTENANCE LICENCE

(a) The standardisation basis for examinations related to the Appendix VII basic knowledge requirements shall be as follows:

(i) all examinations must be carried out using the multiple-choice question format as specified in point (ii). The incorrect alternatives must seem equally plausible to anyone ignorant of the subject. All of the alternatives shall be clearly related to the question and of similar vocabulary, grammatical construction and length. In numerical questions, the incorrect answers shall correspond to procedural errors such as corrections applied in the wrong sense or incorrect unit conversions: they must not be mere random numbers;

(ii) each multiple-choice question must have three alternative answers of which only one must be the correct answer and the candidate must be allowed a time per module which is based upon a nominal average of 75 seconds per question;

(iii) the pass mark for each module is 75 %;

(iv) penalty marking (negative points for failed questions) is not to be used;

(v) the level of knowledge required in the questions must be proportionate to the level of technology of the aircraft category.

(b) The number of questions per module shall be as follows:

(i) module 1L ‘Basic knowledge’: 12 questions. Time allowed: 15 minutes;

(ii) module 2L ‘Human factors’: 8 questions. Time allowed: 10 minutes;

(iii) module 3L ‘Aviation legislation’: 24 questions. Time allowed: 30 minutes;

(iv) module 4L ‘Airframe wooden/metal tube and fabric’: 32 questions. Time allowed: 40 minutes;

(v) module 5L ‘Airframe composite’: 32 questions. Time allowed: 40 minutes;

(vi) module 6L ‘Airframe metal’: 32 questions. Time allowed: 40 minutes;

(vii) module 7L ‘Airframe general’: 64 questions. Time allowed: 80 minutes;

(viii) module 8L ‘Power plant’: 48 questions. Time allowed: 60 minutes;

(ix) module 9L ‘Balloon/Airship hot air’: 36 questions. Time allowed: 45 minutes;

(x) module 10L ‘Balloon/Airship gas (free/tethered)’: 40 questions. Time allowed: 50 minutes;

(xi) module 11L ‘Airships hot air/gas’: 36 questions. Time allowed: 45 minutes;

(xii) Module 12L ‘Radio Com/ELT/transponder/instruments’: 16 questions. Time allowed 20 minutes.

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APPENDICES TO AMC TO AAR-66

APPENDIX I – AIRCRAFT TYPE RATINGS FOR AAR-66 AIRCRAFT MAINTENANCE LICENCES

The following aircraft type ratings should be used to ensure a single standard.

The inclusion of an aircraft type in the list does not indicate that the aircraft type has been already granted a type certificate or the SCAA has already recognised a type certificate.

In order to keep this list current and type ratings consistent, reference shall be made to the aircraft of the type registered in the National Civil Aircraft Register for the purpose of the issue of a type rating whether or not such aircraft type is included in this list.

Notes on type rating (TR) endorsement covering several models/variants:

The endorsement of a type rating (TR) on the aircraft maintenance licence (AML), covering several models/variants, does not automatically imply that the AML holder has acquired the appropriate knowledge on each model/variant. In fact, the AML holder may only have received TR training and/or gained experience that was limited to one or several models or variants.

To demonstrate adequate competence on the relevant model(s)/variant(s), the AML holder and/or the maintenance organisation where the AML holder is contracted/employed is (are) responsible to verify that the model/variant has been adequately covered by the TR course or gained experience and is up to date.

Further explanation can be found in AMC to 66.20(b)(3) and AMC to 145.35(a).

Notes on when and how the licences should be modified:

When a modification is introduced to an aircraft type rating or to an engine designation in the rating which affects licences already issued, the ratings on the AML licences may be modified in the next renewal or when the licence is reissued, unless there is an urgent reason to modify the licence.

Notes on aircraft modified by a Supplemental Type Certificate (STC):

When an aircraft has been modified by an STC for installation of a different engine, the AAR 66 type rating of this aircraft may change i.e. from Group 2 to Group 1. This is not reflected in this document. In case the applicant for a licence faces such a case, he/she or his/her company can inform the SCAA and a new type rating will be defined.

In the following tables:

- The table is alphabetically sorted first by TC/STC Holder, then by TR endorsement, and finally by Model.
- The column ‘TC Holder’ includes the TC holder as defined in the type certificate data sheets (TCDS) (EASA, FAA or other) or the specific airworthiness specifications (SAS).
- Some TC holders’ designations have been corrected to add the information: ‘Aircraft with an SAS’, this means that the aircraft listed under this TC holder designation is considered to be an ‘orphan aircraft’.
- In Group 3, the column ‘Type of structure’ intends to assist the SCAA in identifying the experience required for this type with a view to removing existing limitations on the licence.
- In Group 4, the column ‘Type of structure’ intends to assist the SCAA in identifying the required ‘L’ subcategories.
- Wooden structure covered with fabric is considered to fall under wooden structure. For aeroplanes with a combination of structures, e.g., metal tubing fuselage and wooden wings, both experiences ‘metal tube covered with fabric’ and ‘wooden structure’ are required.

- Only the designations of ratings included in the column “AAR-66 Type rating endorsement” will be used for endorsing individual type ratings on an AAR-66 licences.
- In Group 3, the column ‘MTOM’ intends to assist the SCAA in identifying the aeroplane types where the maximum take-off mass (MTOM) is:
  - above 2t requires a B1.2 and B2 or B2L licence, or
  - 2t and below requires a B1.2 or B3 and B2 or B2L licence.

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
328 Support Services	Dornier 328-100		Dornier 328-100 (PWC PW119)
328 Support Services	Dornier 328-300		Dornier 328-300 (PWC PW306)
AIR TRACTOR, INC.	AT-802		Air Tractor AT-800 Series (PWC PT6)
AIR TRACTOR, INC.	AT-802A		Air Tractor AT-800 Series (PWC PT6)
AIRBUS	A300 B1		Airbus A300 basic model (GE CF6)
AIRBUS	A300 B2-1A		Airbus A300 basic model (GE CF6)
AIRBUS	A300 B2-1C		Airbus A300 basic model (GE CF6)
AIRBUS	A300 B2-202		Airbus A300 basic model (GE CF6)
AIRBUS	A300 B2-203		Airbus A300 basic model (GE CF6)
AIRBUS	A300 B2K-3C		Airbus A300 basic model (GE CF6)
AIRBUS	A300 B4-102		Airbus A300 basic model (GE CF6)
AIRBUS	A300 B4-103		Airbus A300 basic model (GE CF6)
AIRBUS	A300 B4-203		Airbus A300 basic model (GE CF6)
AIRBUS	A300 B4-2C		Airbus A300 basic model (GE CF6)
AIRBUS	A300 C4-203		Airbus A300 basic model (GE CF6)
AIRBUS	A300 F4-203		Airbus A300 basic model (GE CF6)
AIRBUS	A300 B2-320		Airbus A300 basic model (PW JT9D)
AIRBUS	A300 B4-120		Airbus A300 basic model (PW JT9D)
AIRBUS	A300 B4-220		Airbus A300 basic model (PW JT9D)
AIRBUS	A300 B4-601		Airbus A300-600 (GE CF6)
AIRBUS	A300 B4-603		Airbus A300-600 (GE CF6)
AIRBUS	A300 B4-605 R		Airbus A300-600 (GE CF6)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS	A300 C4-605R Variant F		Airbus A300-600 (GE CF6)
AIRBUS	A300 F4-605R		Airbus A300-600 (GE CF6)
AIRBUS	A300 B4-622		Airbus A300-600 (PW 4000)
AIRBUS	A300 B4-622 R		Airbus A300-600 (PW 4000)
AIRBUS	A300 F4-622 R		Airbus A300-600 (PW 4000)
AIRBUS	A300 B4-620		Airbus A300-600 (PW JT9D)
AIRBUS	A300 C4-620		Airbus A300-600 (PW JT9D)
AIRBUS	A300F4-608ST	Beluga	Airbus A300-600ST (GE CF6)
AIRBUS	A310-203		Airbus A310 (GE CF6)
AIRBUS	A310-203 C		Airbus A310 (GE CF6)
AIRBUS	A310-204		Airbus A310 (GE CF6)
AIRBUS	A310-304		Airbus A310 (GE CF6)
AIRBUS	A310-308		Airbus A310 (GE CF6)
AIRBUS	A310-324		Airbus A310 (PW 4000)
AIRBUS	A310-325		Airbus A310 (PW 4000)
AIRBUS	A310-221		Airbus A310 (PW JT9D)
AIRBUS	A310-222		Airbus A310 (PW JT9D)
AIRBUS	A310-322		Airbus A310 (PW JT9D)
AIRBUS	A318-121		Airbus A318 (PW 6000)
AIRBUS	A318-122		Airbus A318 (PW 6000)
AIRBUS	A318-111		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A318-112		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A319-111		Airbus A318/A319/A320/A321 (CFM56)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS	A319-112		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A319-113		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A319-115		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A320-211		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A320-212		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A320-214		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A320-215		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A320-216		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A321-111		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A321-112		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A321-211		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A321-212		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A321-213		Airbus A318/A319/A320/A321 (CFM56)
AIRBUS	A319-151N	A319 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)
AIRBUS	A319-152N	A319 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)
AIRBUS	A319-153N	A319 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)

AIRBUS	A320-251N	A320 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)
AIRBUS	A320-252N	A320 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)
AIRBUS	A320-253N	A320 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)
AIRBUS	A321-251N	A321 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS	A321-251NX	A321 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)
AIRBUS	A321-252N	A321 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)
AIRBUS	A321-252NX	A321 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)
AIRBUS	A321-253N	A321 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)
AIRBUS	A321-253NX	A321 NEO	Airbus A319/A320/A321 (CFM LEAP-1A)
AIRBUS	A319-171N	A319 NEO	Airbus A319/A320/A321 (IAE PW1100G)
AIRBUS	A319-172N	A319 NEO	Airbus A319/A320/A321 (IAE PW1100G)
AIRBUS	A319-173N	A319 NEO	Airbus A319/A320/A321 (IAE PW1100G)
AIRBUS	A320-271N	A320 NEO	Airbus A319/A320/A321 (IAE PW1100G)
AIRBUS	A319-272N	A320 NEO	Airbus A319/A320/A321 (IAE PW1100G)
AIRBUS	A320-273N	A320 NEO	Airbus A319/A320/A321 (IAE PW1100G)
AIRBUS	A321-271N	A321 NEO	Airbus A319/A320/A321 (IAE PW1100G)
AIRBUS	A321-271NX	A321 NEO	Airbus A319/A320/A321 (IAE PW1100G)
AIRBUS	A321-272N	A321 NEO	Airbus A319/A320/A321 (IAE PW1100G)
AIRBUS	A321-272NX	A321 NEO	Airbus A319/A320/A321 (IAE PW1100G)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS	A319-131		Airbus A319/A320/A321 (IAE V2500)
AIRBUS	A319-132		Airbus A319/A320/A321 (IAE V2500)
AIRBUS	A319-133		Airbus A319/A320/A321 (IAE V2500)
AIRBUS	A320-231		Airbus A319/A320/A321 (IAE V2500)
AIRBUS	A320-232		Airbus A319/A320/A321 (IAE V2500)
AIRBUS	A320-233		Airbus A319/A320/A321 (IAE V2500)
AIRBUS	A321-131		Airbus A319/A320/A321 (IAE V2500)
AIRBUS	A321-231		Airbus A319/A320/A321 (IAE V2500)
AIRBUS	A321-232		Airbus A319/A320/A321 (IAE V2500)
AIRBUS	A330-201		Airbus A330 (GE CF6)
AIRBUS	A330-202		Airbus A330 (GE CF6)
AIRBUS	A330-203		Airbus A330 (GE CF6)
AIRBUS	A330-301		Airbus A330 (GE CF6)
AIRBUS	A330-302		Airbus A330 (GE CF6)
AIRBUS	A330-303		Airbus A330 (GE CF6)
AIRBUS	A330-223		Airbus A330 (PW 4000)
AIRBUS	A330-223F		Airbus A330 (PW 4000)
AIRBUS	A330-321		Airbus A330 (PW 4000)
AIRBUS	A330-322		Airbus A330 (PW 4000)
AIRBUS	A330-323		Airbus A330 (PW 4000)
AIRBUS	A330-743L	Beluga XL	Airbus A330 (RR Trent 700)
AIRBUS	A330-243		Airbus A330 (RR Trent 700)
AIRBUS	A330-243F		Airbus A330 (RR Trent 700)
AIRBUS	A330-341		Airbus A330 (RR Trent 700)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS	A330-342		Airbus A330 (RR Trent 700)
AIRBUS	A330-343		Airbus A330 (RR Trent 700)
AIRBUS	A330-841	A330 NEO	Airbus A330 (RR Trent 700)
AIRBUS	A330-941	A330 NEO	Airbus A330 (RR Trent 700)
AIRBUS	A340-211		Airbus A340 (CFM56)
AIRBUS	A340-212		Airbus A340 (CFM56)
AIRBUS	A340-213		Airbus A340 (CFM56)
AIRBUS	A340-311		Airbus A340 (CFM56)
AIRBUS	A340-312		Airbus A340 (CFM56)
AIRBUS	A340-313		Airbus A340 (CFM56)
AIRBUS	A340-541		Airbus A340 (RR Trent 500)
AIRBUS	A340-542		Airbus A340 (RR Trent 500)
AIRBUS	A340-642		Airbus A340 (RR Trent 500)
AIRBUS	A340-643		Airbus A340 (RR Trent 500)
AIRBUS	A350-1041		Airbus A350 (RR Trent XWB)
AIRBUS	A350-941		Airbus A350 (RR Trent XWB)
AIRBUS	A380-861		Airbus A380 (EA GP7200)
AIRBUS	A380-841		Airbus A380 (RR Trent 900)
AIRBUS	A380-842		Airbus A380 (RR Trent 900)
Airbus Canada Limited Partnership	BD-500-1A10	A220-100	Bombardier BD-500 Series (PW PW1500G)
Airbus Canada Limited Partnership	BD-500-1A11	A220-300	Bombardier BD-500 Series (PW PW1500G)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
Airbus Military Sociedad Limitada (AMSL)	A400M-180		Airbus A400M (EPI TP400)
Aircraft Industries, a.s.	L410 NG	Turbolet	Let L-410 (GE H80)
Aircraft Industries, a.s.	L410 UVP-E20	Turbolet	Let L-410 (GE H80)
Aircraft Industries, a.s.	L410 UVP-E20 CARGO	Turbolet	Let L-410 (GE H80)
Aircraft Industries, a.s.	L410 M Turbolet	Turbolet	Let L-410 (Walter M601)
Aircraft Industries, a.s.	L410 UVP-E	Turbolet	Let L-410 (Walter M601)
Aircraft Industries, a.s.	L410 EVP E-20	Turbolet	Let L-410 (Walter M601)
Aircraft Industries, a.s.	L410 UVP-E20 CARGO	Turbolet	Let L-410 (Walter M601)
Aircraft Industries, a.s.	L410 UVP-E9	Turbolet	Let L-410 (Walter M601)
Aircraft Industries, a.s.	L410 UVP E-LW	Turbolet	Let L-410 (Walter M601)
Aircraft Industries, a.s.	L420		Let L-420 (Walter M601)
ALENIA AERMACCHI	C-27J		Alenia C-27 (Allison/RR AE2100)
ANTONOV	AN-26		Antonov AN26 (Ivchenko AI-24)
ANTONOV	AN-26B		Antonov AN26 (Ivchenko AI-24)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
Antonov Aeronautical Scientific and Technical Complex (Aircraft with SAS)	Antonov An-28		Antonov An-28 (ТВД)
ASI AVIATION	F 406		Reims-Cessna F 406 (PWC PT6)
ATR-GIE Avions de Transport Regional	ATR 42-200		ATR 42-200/300 series (PWC PW120)
ATR-GIE Avions de Transport Regional	ATR 42-300		ATR 42-200/300 series (PWC PW120)
ATR-GIE Avions de Transport Regional	ATR 42-320		ATR 42-200/300 series (PWC PW120)
ATR-GIE Avions de Transport Regional	ATR 42-400		ATR 42-400/500/72-212A (PWC PW120)
ATR-GIE Avions de Transport Regional	ATR 42-500	42-500 42-600	ATR 42-400/500/72-212A (PWC PW120)
ATR-GIE Avions de Transport Regional	ATR 72-212 A	72-500 72-600	ATR 42-400/500/72-212A (PWC PW120)
ATR-GIE Avions de Transport Regional	ATR 72-101		ATR 72-100/200 series (PWC PW120)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
ATR-GIE Avions de Transport Regional	ATR 72-102		ATR 72-100/200 series (PWC PW120)
ATR-GIE Avions de Transport Regional	ATR 72-201		ATR 72-100/200 series (PWC PW120)
ATR-GIE Avions de Transport Regional	ATR 72-202		ATR 72-100/200 series (PWC PW120)
ATR-GIE Avions de Transport Regional	ATR 72-211		ATR 72-100/200 series (PWC PW120)
ATR-GIE Avions de Transport Regional	ATR 72-212		ATR 72-100/200 series (PWC PW120)
BAE SYSTEMS (OPERATIONS) Ltd	ATP		ATP (PWC PW120)
BAE SYSTEMS (OPERATIONS) Ltd	AVRO 146-RJ100		Bae 146 / AVRO 146-RJ (Honeywell ALF500 Series)
BAE SYSTEMS (OPERATIONS) Ltd	AVRO 146-RJ115		Bae 146 / AVRO 146-RJ (Honeywell ALF500 Series)
BAE SYSTEMS (OPERATIONS) Ltd	AVRO 146-RJ170		Bae 146 / AVRO 146-RJ (Honeywell ALF500 Series)
BAE SYSTEMS (OPERATIONS) Ltd	AVRO 146-RJ185		Bae 146 / AVRO 146-RJ (Honeywell ALF500 Series)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BAE SYSTEMS (OPERATIONS) Ltd	BAe 146 Series 100		Bae 146 / AVRO 146-RJ (Honeywell ALF500 Series)
BAE SYSTEMS (OPERATIONS) Ltd	BAe 146 Series 200		Bae 146 / AVRO 146-RJ (Honeywell ALF500 Series)
BAE SYSTEMS (OPERATIONS) Ltd	BAe 146 Series 300		Bae 146 / AVRO 146-RJ (Honeywell ALF500 Series)
BAE SYSTEMS (OPERATIONS) Ltd	HS 748 Series 1		HS748 (RRD Dart)
BAE SYSTEMS (OPERATIONS) Ltd	HS 748 Series 2		HS748 (RRD Dart)
BAE SYSTEMS (OPERATIONS) Ltd	HS 748 Series 2A		HS748 (RRD Dart)
BAE SYSTEMS (OPERATIONS) Ltd	HS 748 Series 2B		HS748 (RRD Dart)
BAE SYSTEMS (OPERATIONS) Ltd	Jetstream 3100 Series	Jetstream 31	Jetstream 31/32 (Honeywell TPE331)
BAE SYSTEMS (OPERATIONS) Ltd	Jetstream 3200 Series	Jetstream 32/32EP	Jetstream 31/32 (Honeywell TPE331)
BAE SYSTEMS (OPERATIONS) Ltd	Jetstream 4100 Series	Jetstream 32/32EP	Jetstream 41 (Honeywell TPE331)
BEECHCRAFT Corporation	200		Beech 200 Series (PWC PT6)
BEECHCRAFT Corporation	300LW	Super King Air	Beech 300 Series (PWC PT6)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BEECHCRAFT Corporation	F90	King Air	Beech 90 Series (PWC PT6)
BEECHCRAFT Corporation	A99	Airliner	Bench 99/100 Series (PWC PT6)
BEECHCRAFT Corporation	A99A	Airliner	Bench 99/100 Series (PWC PT6)
BEECHCRAFT Corporation	B99	Airliner	Bench 99/100 Series (PWC PT6)
BEECHCRAFT Corporation	C99	Airliner	Bench 99/100 Series (PWC PT6)
BEECHCRAFT Corporation	100	Airliner	Bench 99/100 Series (PWC PT6)
BEECHCRAFT Corporation	A100	Airliner	Bench 99/100 Series (PWC PT6)
BEECHCRAFT Corporation	A100A	Airliner	Bench 99/100 Series (PWC PT6)
BEECHCRAFT Corporation	A99	Airliner	Bench 99/100 Series (PWC PT6)
BEECHCRAFT Corporation	99		Bench 99/100 Series (PWC PT6)
BEECHCRAFT Corporation	99A		Bench 99/100 Series (PWC PT6)
BEECHCRAFT Corporation	B100		Beech B100 (Honeywell TPE331)
BERIEV Aircraft Company	Be-200ES-E		Beriev 200 (Ivchenko D-436TP)
B-N GROUP Ltd. (Britten-Norman)	BN2T	Turbine Islander	Britten-Norman BN2T Series (RR Corp 250)
B-N GROUP Ltd. (Britten-Norman)	BN2T-2	Turbine Islander	Britten-Norman BN2T Series (RR Corp 250)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
B-N GROUP Ltd. (Britten-Norman)	BN2T-2R	Turbine Islander	Britten-Norman BN2T Series (RR Corp 250)
B-N GROUP Ltd. (Britten-Norman)	BN2T-4R	Turbine Islander	Britten-Norman BN2T Series (RR Corp 250)
B-N GROUP Ltd. (Britten-Norman)	BN2T-4S	Turbine Islander	Britten-Norman BN2T Series (RR Corp 250)
BOEING COMPANY (THE)	707-200	B707	Boeing 707 (PW JT4)
BOEING COMPANY (THE)	707-300 Series	B707	Boeing 707 (PW JT4)
BOEING COMPANY (THE)	707-400	B707	Boeing 707 (RR Conway)
BOEING COMPANY (THE)	720	B707	Boeing 707/720 (PW JT3D)
BOEING COMPANY (THE)	707-100 Long Body	B707	Boeing 707/720 (PW JT3D)
BOEING COMPANY (THE)	707-100B Long Body	B707	Boeing 707/720 (PW JT3D)
BOEING COMPANY (THE)	707-100B Short Body	B707	Boeing 707/720 (PW JT3D)
BOEING COMPANY (THE)	707-300	B707	Boeing 707/720 (PW JT3D)
BOEING COMPANY (THE)	707-300C	B707	Boeing 707/720 (PW JT3D)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BOEING COMPANY (THE)	720-B	B707	Boeing 707/720 (PW JT3D)
BOEING COMPANY (THE)	727	B727	Boeing 727 (PW JT8D)
BOEING COMPANY (THE)	727-100	B727	Boeing 727 (PW JT8D)
BOEING COMPANY (THE)	727-100C	B727	Boeing 727 (PW JT8D)
BOEING COMPANY (THE)	727-200	B727	Boeing 727 (PW JT8D)
BOEING COMPANY (THE)	727-200F	B727	Boeing 727 (PW JT8D)
BOEING COMPANY (THE)	727C	B727	Boeing 727 (PW JT8D)
BOEING COMPANY (THE)	737-100	B737 Classic	Boeing 737-100/200 (PW JT8D)
BOEING COMPANY (THE)	737-200	B737 Classic	Boeing 737-100/200 (PW JT8D)
BOEING COMPANY (THE)	737-200C	B737 Classic	Boeing 737-100/200 (PW JT8D)
BOEING COMPANY (THE)	737-300	B737 Classic	Boeing 737-300/400/500 (CFM56)
BOEING COMPANY (THE)	737-400	B737 Classic	Boeing 737-300/400/500 (CFM56)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BOEING COMPANY (THE)	737-500	B737 Classic	Boeing 737-300/400/500 (CFM56)
BOEING COMPANY (THE)	737-600	B737 Next Generation	Boeing 737-600/700/800/900 (CFM56)
BOEING COMPANY (THE)	737-700	B737 Next Generation	Boeing 737-600/700/800/900 (CFM56)
BOEING COMPANY (THE)	737-800	B737 Next Generation	Boeing 737-600/700/800/900 (CFM56)
BOEING COMPANY (THE)	737-900	B737 Next Generation	Boeing 737-600/700/800/900 (CFM56)
BOEING COMPANY (THE)	737-900ER	B737 Next Generation	Boeing 737-600/700/800/900 (CFM56)
BOEING COMPANY (THE)	737-8	B737 MAX	Boeing 737-7/8/9 (CFM LEAP-1B)
BOEING COMPANY (THE)	737-8200	B737 MAX	Boeing 737-7/8/9 (CFM LEAP-1B)
BOEING COMPANY (THE)	737-9	B737 MAX	Boeing 737-7/8/9 (CFM LEAP-1B)
BOEING COMPANY (THE)	747-100	B747	Boeing 747-100 (PW JT9D)
BOEING COMPANY (THE)	747-200	B747	Boeing 747-200/300 (GE CF6)
BOEING COMPANY (THE)	747-200C	B747	Boeing 747-200/300 (GE CF6)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BOEING COMPANY (THE)	747-200F	B747	Boeing 747-200/300 (GE CF6)
BOEING COMPANY (THE)	747-300	B747	Boeing 747-200/300 (GE CF6)
BOEING COMPANY (THE)	747-200	B747	Boeing 747-200/300 (PW JT9D)
BOEING COMPANY (THE)	747-200C	B747	Boeing 747-200/300 (PW JT9D)
BOEING COMPANY (THE)	747-200F	B747	Boeing 747-200/300 (PW JT9D)
BOEING COMPANY (THE)	747-300	B747	Boeing 747-200/300 (PW JT9D)
BOEING COMPANY (THE)	747-200	B747	Boeing 747-200/300 (RR RB211)
BOEING COMPANY (THE)	747-200C	B747	Boeing 747-200/300 (RR RB211)
BOEING COMPANY (THE)	747-200F	B747	Boeing 747-200/300 (RR RB211)
BOEING COMPANY (THE)	747-300	B747	Boeing 747-200/300 (RR RB211)
BOEING COMPANY (THE)	747-400	B747	Boeing 747-400 (GE CF6)
BOEING COMPANY (THE)	747-400F	B747	Boeing 747-400 (GE CF6)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BOEING COMPANY (THE)	747-400BCF	B747F/SF	Boeing 747-400 (GE CF6)
BOEING COMPANY (THE)	747-400	B747	Boeing 747-400 (PW 4000)
BOEING COMPANY (THE)	747-400F	B747	Boeing 747-400 (PW 4000)
BOEING COMPANY (THE)	747-400CF	B747F/SF	Boeing 747-400 (PW 4000)
BOEING COMPANY (THE)	747-400	B747	Boeing 747-400 (RR RB211)
BOEING COMPANY (THE)	747-400F	B747	Boeing 747-400 (RR RB211)
BOEING COMPANY (THE)	747-400CF	B747	Boeing 747-400 (RR RB211)
BOEING COMPANY (THE)	747-8	B747	Boeing 747-8 (GE GEnx)
BOEING COMPANY (THE)	747-8F	Freighter	Boeing 747-8 (GE GEnx)
BOEING COMPANY (THE)	747SP		Boeing 747SP (PW JT9D)
BOEING COMPANY (THE)	757-200	B757	Boeing 757-200/300 (PW 2000)
BOEING COMPANY (THE)	757-200PF	B757	Boeing 757-200/300 (PW 2000)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BOEING COMPANY (THE)	757-300	B757	Boeing 757-200/300 (PW 2000)
BOEING COMPANY (THE)	757-200	B757	Boeing 757-200/300 (RR RB211)
BOEING COMPANY (THE)	757-200PF	B757	Boeing 757-200/300 (RR RB211)
BOEING COMPANY (THE)	757-300	B757	Boeing 757-200/300 (RR RB211)
BOEING COMPANY (THE)	767-200	B767	Boeing 767-200/300 (PW 4000)
BOEING COMPANY (THE)	767-300	B767	Boeing 767-200/300 (PW 4000)
BOEING COMPANY (THE)	767-300CF	B767	Boeing 767-200/300 (PW 4000)
BOEING COMPANY (THE)	767-200	B767	Boeing 767-200/300 (PW JT9D)
BOEING COMPANY (THE)	767-300	B767	Boeing 767-200/300 (PW JT9D)
BOEING COMPANY (THE)	767-300CF	B767	Boeing 767-200/300 (PW JT9D)
BOEING COMPANY (THE)	767-200	B767	Boeing 767-200/300/400 (GE CF6)
BOEING COMPANY (THE)	767-300	B767	Boeing 767-200/300/400 (GE CF6)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BOEING COMPANY (THE)	767-300CF	B767	Boeing 767-200/300/400 (GE CF6)
BOEING COMPANY (THE)	767-300F	B767	Boeing 767-200/300/400 (GE CF6)
BOEING COMPANY (THE)	767-400ER	B767	Boeing 767-200/300/400 (GE CF6)
BOEING COMPANY (THE)	767-300	B767	Boeing 767-300 (RR RB211)
BOEING COMPANY (THE)	777-200	B777	Boeing 777-200/300 (GE 90)
BOEING COMPANY (THE)	777-200LR	B777	Boeing 777-200/300 (GE 90)
BOEING COMPANY (THE)	777-300ER	B777	Boeing 777-200/300 (GE 90)
BOEING COMPANY (THE)	777F	Freighter	Boeing 777-200/300 (GE 90)
BOEING COMPANY (THE)	777-200	B777	Boeing 777-200/300 (PW 4000)
BOEING COMPANY (THE)	777-300	B777	Boeing 777-200/300 (PW 4000)
BOEING COMPANY (THE)	777-200	B777	Boeing 777-200/300 (RR Trent 800)
BOEING COMPANY (THE)	777-300	B777	Boeing 777-200/300 (RR Trent 800)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BOEING COMPANY (THE)	787-10	Dreamliner	Boeing 787-8/9/10 (GEnx)
BOEING COMPANY (THE)	787-8	Dreamliner	Boeing 787-8/9/10 (GEnx)
BOEING COMPANY (THE)	787-9	Dreamliner	Boeing 787-8/9/10 (GEnx)
BOEING COMPANY (THE)	787-10	Dreamliner	Boeing 787-8/9/10 (RR Trent 1000)
BOEING COMPANY (THE)	787-8	Dreamliner	Boeing 787-8/9/10 (RR Trent 1000)
BOEING COMPANY (THE)	787-9	Dreamliner	Boeing 787-8/9/10 (RR Trent 1000)
BOMBARDIER	BD-100-1A10	Challenger 300 Challenger 350	Bombardier BD-100-1A10 (Honeywell AS907)
BOMBARDIER	BD-700-1A11	Global 5000 Global 5000 GVFD Global 5500	Bombardier BD-700 Series (RRD BR700-710)
BOMBARDIER	BD-700-1A10	Global Express Global 6000 Global 6500	Bombardier BD-700 Series (RRD BR700-710)
BOMBARDIER	BD-700-2A12	Global 7500	Bombardier BD-700 2A12 (GE Passport 20)
BOMBARDIER	CL-600-1A11 (600)	Challenger 600	Bombardier CL-600-1A11 (Honeywell ALF502)
BOMBARDIER	CL-600-2A12 (601 Variant)	Challenger 601	Bombardier CL-600-2A12/2B16 (601/601-3A/3R Variant) (GE CF34)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BOMBARDIER	CL-600-2B16 (601-3A Variant)	Challenger 601-3A	Bombardier CL-600-2A12/2B16 (601/601-3A/3R Variant) (GE CF34)
BOMBARDIER	CL-600-2B16 (601-3R Variant)	Challenger 601-3R	Bombardier CL-600-2A12/2B16 (601/601-3A/3R Variant) (GE CF34)
BOMBARDIER	CL-600-2B16 (604 Variant)	Challenger 604 (MSN < 5701) Challenger 605 (5701 <= MSN <= 5990) Challenger 650 (MSN >= 6050)	Bombardier CL-600-2B16 (604 Variant) (GE CF34)
BOMBARDIER	CL-600-2B19 (RJ Series 100)	Regional Jet Series 100/200/440/ Challenger 850/CRJ SE	Bombardier CL-600-2B19 (GE CF34)
BOMBARDIER	CL-600-2E25 (RJ Series 1000)	Regional Jet Series 1000	Bombardier CL-600-2C10/2D15/2D24/2E25 (GE CF34)
BOMBARDIER	CL-600-2C10 (RJ 700/701/702)	Regional Jet Series 700/701/702	Bombardier CL-600-2C10/2D15/2D24/2E25 (GE CF34)
BOMBARDIER	CL-600-2D15 (RJ Series 705)	Regional Jet Series 705	Bombardier CL-600-2C10/2D15/2D24/2E25 (GE CF34)
BOMBARDIER	CL-600-2D24 (RJ Series 900)	Regional Jet Series 900	Bombardier CL-600-2C10/2D15/2D24/2E25 (GE CF34)
BOMBARDIER	DHC-8-102	DHC-8 Series 100	Bombardier DHC-8-100/200/300 (PWC PW 120)
BOMBARDIER	DHC-8-103	DHC-8 Series 100	Bombardier DHC-8-100/200/300 (PWC PW 120)
BOMBARDIER	DHC-8-106	DHC-8 Series 100	Bombardier DHC-8-100/200/300 (PWC PW 120)
BOMBARDIER	DHC-8-201	DHC-8 Series 200	Bombardier DHC-8-100/200/300 (PWC PW 120)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BOMBARDIER	DHC-8-202	DHC-8 Series 200	Bombardier DHC-8-100/200/300 (PWC PW 120)
BOMBARDIER	DHC-8-301	DHC-8 Series 300	Bombardier DHC-8-100/200/300 (PWC PW 120)
BOMBARDIER	DHC-8-311	DHC-8 Series 300	Bombardier DHC-8-100/200/300 (PWC PW 120)
BOMBARDIER	DHC-8-314	DHC-8 Series 300	Bombardier DHC-8-100/200/300 (PWC PW 120)
BOMBARDIER	DHC-8-315	DHC-8 Series 300	Bombardier DHC-8-100/200/300 (PWC PW 120)
BOMBARDIER	DHC-8-401	DHC-8 Series 400	Bombardier DHC-8-400 (PWC PW150)
BOMBARDIER	DHC-8-402	DHC-8 Series 400	Bombardier DHC-8-400 (PWC PW150)
BOMBARDIER	CL-215-1A10		Canadair CL-215 (PW R2800)
BOMBARDIER	CL-215-6B11 (CL-215T Variant)		Canadair CL-215 (PW PW120)
BOMBARDIER	CL-215-6B11 (CL-415 Variant)		Canadair CL-415 (PWC PW123)
CIRRUS Design Corporation	SF50		CIRRUS SF50 (Williams FJ33)
DAHER AEROSPACE	TBM700 A		Socata TBM700 (PWC PT6)
DAHER AEROSPACE	TBM700 B		Socata TBM700 (PWC PT6)
DAHER AEROSPACE	TBM700 C1		Socata TBM700 (PWC PT6)
DAHER AEROSPACE	TBM700 C2		Socata TBM700 (PWC PT6)
DAHER AEROSPACE	TBM700 N		Socata TBM700 (PWC PT6)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
DASSAULT AVIATION	Falcon 10		Falcon 10 (Honeywell TFE731)
DASSAULT AVIATION	Fan Jet Falcon	(Basic) Fan Jet Falcon	Falcon 20 (GE CF700)
DASSAULT AVIATION	Fan Jet Falcon C		Falcon 20 (GE CF700)
DASSAULT AVIATION	Fan Jet Falcon D		Falcon 20 (GE CF700)
DASSAULT AVIATION	Fan Jet Falcon E		Falcon 20 (GE CF700)
DASSAULT AVIATION	Fan Jet Falcon F		Falcon 20 (GE CF700)
DASSAULT AVIATION	Fan Jet Falcon G		Falcon 200 (Honeywell ATF 3-6)
DASSAULT AVIATION	Mystère Falcon 200		Falcon 200 (Honeywell ATF 3-6)
DASSAULT AVIATION	Mystère Falcon 20GF		Falcon 200 (Honeywell ATF 3-6)
DASSAULT AVIATION	Falcon 2000		Falcon 2000 (CFE 738)
DASSAULT AVIATION	Falcon 2000EX		Falcon 2000EX (PWC PW308)
DASSAULT AVIATION	Falcon 2000EX	F2000EX EASy F2000DX F2000LX F2000LXS F2000S	Falcon 2000EX EASy (PWC PW308C)
DASSAULT AVIATION	Mystère Falcon 20-C5		Falcon 20-5 (Honeywell TFE731)
DASSAULT AVIATION	Mystère Falcon 20-D5		Falcon 20-5 (Honeywell TFE731)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
DASSAULT AVIATION	Mystère Falcon 20-E5		Falcon 20-5 (Honeywell TFE731)
DASSAULT AVIATION	Mystère Falcon 20-F5		Falcon 20-5 (Honeywell TFE731)
DASSAULT AVIATION	Mystère Falcon 50		Falcon 50 (Honeywell TFE731)
DASSAULT AVIATION	Mystère Falcon 50	F50EX	Falcon 50EX (Honeywell TFE731)
DASSAULT AVIATION	Falcon 7X	Falcon 7X Falcon 8X	Falcon 7X (PW307)
DASSAULT AVIATION	Mystère Falcon 900	Falcon 900 Falcon 900B	Falcon 900 (Honeywell TFE731)
DASSAULT AVIATION	Mystère Falcon 900	Falcon 900C	Falcon 900C/EX (Honeywell TFE 731)
DASSAULT AVIATION	Falcon 900EX		Falcon 900C/EX (Honeywell TFE 731)
DASSAULT AVIATION	Falcon 900EX	F900EX EASy F9000DX F900LX	Falcon 900EX EASy (Honeywell TFE731)
DASSAULT AVIATION	Seastar CD2		Dornier Seastar CD2 (PWC PT6)
EADS CASA	C-212-CB	Aviocar	CASA C-212 (Honeywell TPE331)
EADS CASA	C-212-CC	Aviocar	CASA C-212 (Honeywell TPE331)
EADS CASA	C-212-CD	Aviocar	CASA C-212 (Honeywell TPE331)
EADS CASA	C-212-CE	Aviocar	CASA C-212 (Honeywell TPE331)
EADS CASA	C-212-CF	Aviocar	CASA C-212 (Honeywell TPE331)
EADS CASA	C-212-DD	Aviocar	CASA C-212 (Honeywell TPE331)
EADS CASA	C-212-DF	Aviocar	CASA C-212 (Honeywell TPE331)
EADS CASA	C-212-EE	Aviocar	CASA C-212 (Honeywell TPE331)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
EADS CASA	C-212-VA	Aviocar	CASA C-212 (Honeywell TPE331)
EADS CASA	C-212-DE	Aviocar	CASA C-212 (PWC PT6)
EADS CASA	C-295		CASA C-295 (PWC PW127)
EADS CASA	CN-235		CASA CN-235 (GE CT7)
EADS CASA	CN-235-100		CASA CN-235 (GE CT7)
EADS CASA	CN-235-200		CASA CN-235 (GE CT7)
EADS CASA	CN-235-300		CASA CN-235 (GE CT7)
ECLIPSE AEROSPACE Inc.	EA500		Eclipse EA500 (PWC PW610)
EMBRAER S.A.	EMB-110K1	Bandeirante	Embraer EMB-100 (PWC PT6)
EMBRAER S.A.	EMB-110P1	Bandeirante	Embraer EMB-100 (PWC PT6)
EMBRAER S.A.	EMB-110P2	Bandeirante	Embraer EMB-100 (PWC PT6)
EMBRAER S.A.	EMB-120	Brasilia	Embraer EMB-120 (PWC PW110 Series)
EMBRAER S.A.	EMB-120ER	Brasilia	Embraer EMB-120 (PWC PW110 Series)
EMBRAER S.A.	EMB-120RT	Brasilia	Embraer EMB-120 (PWC PW110 Series)
EMBRAER S.A.	EMB-121A	Xingu I	Embraer EMB-121 (PWC PT6)
EMBRAER S.A.	EMB-121A1	Xingu II	Embraer EMB-121 (PWC PT6)
EMBRAER S.A.	EMB-135BJ	Legacy 600 Legacy 650	Embraer EMB-135/145 (RR Corp AE3007A)
EMBRAER S.A.	EMB-135ER		Embraer EMB-135/145 (RR Corp AE3007A)
EMBRAER S.A.	EMB-135LR		Embraer EMB-135/145 (RR Corp AE3007A)
EMBRAER S.A.	EMB-145		Embraer EMB-135/145 (RR Corp AE3007A)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
EMBRAER S.A.	EMB-145EP		Embraer EMB-135/145 (RR Corp AE3007A)
EMBRAER S.A.	EMB-145ER		Embraer EMB-135/145 (RR Corp AE3007A)
EMBRAER S.A.	EMB-145EU		Embraer EMB-135/145 (RR Corp AE3007A)
EMBRAER S.A.	EMB-145LR		Embraer EMB-135/145 (RR Corp AE3007A)
EMBRAER S.A.	EMB-145LU		Embraer EMB-135/145 (RR Corp AE3007A)
EMBRAER S.A.	EMB-145MK		Embraer EMB-135/145 (RR Corp AE3007A)
EMBRAER S.A.	EMB-145MP		Embraer EMB-135/145 (RR Corp AE3007A)
EMBRAER S.A.	EMB-500	Phenom 100	Embraer EMB-500 (PWC PW617)
EMBRAER S.A.	EMB-505	Phenom 300	Embraer EMB-505 (PWC PW535)
EMBRAER S.A.	EMB-545	Legacy 450	Embraer EMB-545/550 (Honeywell AS907)
EMBRAER S.A.	EMB-550	Legacy 500	Embraer EMB-545/550 (Honeywell AS907)
EMBRAER S.A.	ERJ 170-100 LR	ERJ-170	Embraer ERJ-170 Series (GE CF34)
EMBRAER S.A.	ERJ 170-100 STD	ERJ-170	Embraer ERJ-170 Series (GE CF34)
EMBRAER S.A.	ERJ 170-200 LR	ERJ-175	Embraer ERJ-170 Series (GE CF34)
EMBRAER S.A.	ERJ 170-200 STD	ERJ-175	Embraer ERJ-170 Series (GE CF34)
EMBRAER S.A.	ERJ 190-100 LR	ERJ-190	Embraer ERJ-190 Series (GE CF34)
EMBRAER S.A.	ERJ 190-100 SR	ERJ-190	Embraer ERJ-190 Series (GE CF34)
EMBRAER S.A.	ERJ 190-100 STD	ERJ-190	Embraer ERJ-190 Series (GE CF34)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
EMBRAER S.A.	ERJ 190-100 IGW	ERJ-195 AR	Embraer ERJ-190 Series (GE CF34)
EMBRAER S.A.	ERJ 190-100 ECJ	Lineage 1000	Embraer ERJ-190 Series (GE CF34)
EMBRAER S.A.	ERJ 190-300	EMBRAER 190E2	Embraer ERJ-190 Series (PW 1900G)
EMBRAER S.A.	ERJ 190-400	EMBRAER 190E2	Embraer ERJ-190 Series (PW 1900G)
FOKKER SERVICES	F27 Mark 050	Fokker 50	Fokker 50/60 Series (PWC PW 125/127)
FOKKER SERVICES	F27 Mark 0502	Fokker 50	Fokker 50/60 Series (PWC PW 125/127)
FOKKER SERVICES	F27 Mark 0604	Fokker 60	Fokker 50/60 Series (PWC PW 125/127)
FOKKER SERVICES	F28 Mark 0100	Fokker 100	Fokker 70/100 (RRD Tay)
FOKKER SERVICES	F28 Mark 0070	Fokker 70	Fokker 70/100 (RRD Tay)
FOKKER SERVICES	F27 Mark 100	Friendship	Fokker 27 / Fairchild F-27/FH-227 Series (RRD Dart)
FOKKER SERVICES	F27 Mark 200	Friendship	Fokker 27 / Fairchild F-27/FH-227 Series (RRD Dart)
FOKKER SERVICES	F27 Mark 300	Friendship	Fokker 27 / Fairchild F-27/FH-227 Series (RRD Dart)
FOKKER SERVICES	F27 Mark 400	Friendship	Fokker 27 / Fairchild F-27/FH-227 Series (RRD Dart)
FOKKER SERVICES	F27 Mark 500	Friendship	Fokker 27 / Fairchild F-27/FH-227 Series (RRD Dart)
FOKKER SERVICES	F27 Mark 600	Friendship	Fokker 27 / Fairchild F-27/FH-227 Series (RRD Dart)
FOKKER SERVICES	F27 Mark 700	Friendship	Fokker 27 / Fairchild F-27/FH-227 Series (RRD Dart)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
FOKKER SERVICES	F28 Mark 1000	Fellowship	Fokker F28 Series (RRD Spey)
FOKKER SERVICES	F28 Mark 1000C	Fellowship	Fokker F28 Series (RRD Spey)
FOKKER SERVICES	F28 Mark 2000	Fellowship	Fokker F28 Series (RRD Spey)
FOKKER SERVICES	F28 Mark 3000	Fellowship	Fokker F28 Series (RRD Spey)
FOKKER SERVICES	F28 Mark 3000C	Fellowship	Fokker F28 Series (RRD Spey)
FOKKER SERVICES	F28 Mark 3000R	Fellowship	Fokker F28 Series (RRD Spey)
FOKKER SERVICES	F28 Mark 3000RC	Fellowship	Fokker F28 Series (RRD Spey)
FOKKER SERVICES	F28 Mark 4000	Fellowship	Fokker F28 Series (RRD Spey)
GROB Aircraft AG	G520 EGRETT		Grob G 520 Series (Honeywell TPE331)
GROB Aircraft AG	G520T		Grob G 520 Series (Honeywell TPE331)
GULFSTREAM AEROSPACE Corporation	G-1159	Gulfstream II	Gulfstream G-1159 Series (RRD Spey)
GULFSTREAM AEROSPACE Corporation	G-1159A	Gulfstream IIB	Gulfstream G-1159 Series (RRD Spey)
GULFSTREAM AEROSPACE Corporation	G-1159B	Gulfstream III	Gulfstream G-1159 Series (RRD Spey)
GULFSTREAM AEROSPACE Corporation	G-159	Gulfstream I	Gulfstream G-159 (RRD Dart)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
GULFSTREAM AEROSPACE Corporation	G-IV	Gulfstream G-IV/GIV-SP	Gulfstream GIV/GIV-SP Series (RRD Tay)
GULFSTREAM AEROSPACE Corporation	GIV-X	Gulfstream 350 Gulfstream G450	Gulfstream GIV-X Series (RRD Tay)
GULFSTREAM AEROSPACE Corporation	GV	Gulfstream GV	Gulfstream GV basic model (RRD BR710)
GULFSTREAM AEROSPACE Corporation	GVI (G650)	G650 G650ER	Gulfstream GVI (RRD BR725)
GULFSTREAM AEROSPACE Corporation	GVII-G500		Gulfstream GVII (PWC PW800GA)
GULFSTREAM AEROSPACE Corporation	GVII-G600		Gulfstream GVII (PWC PW800GA)
GULFSTREAM AEROSPACE Corporation	GV-SP	Gulfstream 500 Gulfstream G550	Gulfstream GV-SP Series (RRD BR710)
GULFSTREAM AEROSPACE LP (GALP)	1125 Westwind Astra	Astra	Gulfstream (IAI) 100/1125/Astra SPX (Honeywell TFE731)
GULFSTREAM AEROSPACE LP (GALP)	Gulfstream 100 / Astra SPX	G100/Astra SPX	Gulfstream (IAI) 100/1125/Astra SPX (Honeywell TFE731)
GULFSTREAM AEROSPACE LP (GALP)	1125 Astra SP		Gulfstream (IAI) 100/1125/Astra SPX (Honeywell TFE731)
GULFSTREAM AEROSPACE LP (GALP)	Gulfstream 200 / Galaxy	G200/Galaxy	Gulfstream (IAI) 200 / Galaxy (PWC PW306)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
GULFSTREAM AEROSPACE LP (GALP)	Gulfstream G150	G150	Gulfstream (IAI) G150 (Honeywell TFE731)
GULFSTREAM AEROSPACE LP (GALP)	Gulfstream G280	G280	Gulfstream (IAI) G280 (Honeywell AS907)
HAWKER BEECHCRAFT	BAe.125 Series 800A	BAe.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	BAe.125 Series 800B	BAe.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	BAe.125 Series 400A	BH.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	BAe.125 Series 600A	BH.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	DH.125 Series 1A	DH.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	DH.125 Series 3A	DH.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	DH.125 Series 3A/RA	DH.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	DH.125 Series 400A	DH.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	HS.125 Series 400A	HS.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	HS.125 Series 600A	HS.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	HS.125 Series 700A	HS.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	HS.125 Series 700B	HS.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	HS.125 Series F3B	HS.125	BAe 125 Series (Honeywell TFE731)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
HAWKER BEECHCRAFT	HS.125 Series F3B/RA	HS.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	HS.125 Series F400B	HS.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	HS.125 Series F403B	HS.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	HS.125 Series 600B	HS.125	BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	Hawker 800		BAe 125 Series (Honeywell TFE731)
HAWKER BEECHCRAFT	HS.125 Series F400	'Hawker Siddeley'	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series F600	'Hawker Siddeley'	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 400A	BH.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 600A	BH.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	DH.125 Series 1A	DH.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	DH.125 Series 1A/R-522	DH.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	DH.125 Series 1A/S-522	DH.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	DH.125 Series 1A-522	DH.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	DH.125 Series 3A/R	DH.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	DH.125 Series 400A	DH.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 1B	HS.125	BAe 125 Series (RR Viper)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
HAWKER BEECHCRAFT	HS.125 Series 1B/R-522	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 1B/S-522	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 1B-522	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 3B	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 3B/R	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 3B/RA	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 3B/RB	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 3B/RC	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 400A	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 400B	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 400B/1	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 401B	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 403A(C)	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 403B	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 600A	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 600B	HS.125	BAe 125 Series (RR Viper)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
HAWKER BEECHCRAFT	HS.125 Series 600B/1	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 600B/2	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	HS.125 Series 600B/3	HS.125	BAe 125 Series (RR Viper)
HAWKER BEECHCRAFT	BAe.125 Series 1000A	BAe.125	BAe 125 Series 1000 (PWC PW305)
HAWKER BEECHCRAFT	BAe.125 Series 1000B	BAe.125	BAe 125 Series 1000 (PWC PW305)
HAWKER BEECHCRAFT	Hawker 1000		BAe 125 Series 1000 (PWC PW305)
HAWKER BEECHCRAFT	Hawker 750	Hawker 750	BAe 125 Series 750/800XP/850XP/900XP (Honeywell TFE731)
HAWKER BEECHCRAFT	Hawker 800XP	Hawker 800XP	BAe 125 Series 750/800XP/850XP/900XP (Honeywell TFE731)
HAWKER BEECHCRAFT	Hawker 850XP	Hawker 850XP	BAe 125 Series 750/800XP/850XP/900XP (Honeywell TFE731)
HAWKER BEECHCRAFT	Hawker 900XP	Hawker 900XP	BAe 125 Series 750/800XP/850XP/900XP (Honeywell TFE731)
HAWKER BEECHCRAFT	400T	(TX) Beechjet	Beech 400/Mitsubishi MU-300 (PWC JT15)
HAWKER BEECHCRAFT	400	Beechjet	Beech 400/Mitsubishi MU-300 (PWC JT15)
HAWKER BEECHCRAFT	400A	Beechjet (Hawker 400XP)	Beech 400/Mitsubishi MU-300 (PWC JT15)
HAWKER BEECHCRAFT	MU-300 (Diamond I)	Diamond I Diamond IA	Beech 400/Mitsubishi MU-300 (PWC JT15)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
HAWKER BEECHCRAFT	MU-300-10 (Diamond II)	Diamond II	Beech 400/Mitsubishi MU-300 (PWC JT15)
HAWKER AIRCRAFT COMPANY LLC.	HA-420	HondaJet	Honda Aircraft HA-420 (HF120)
ISRAEL AIRCRAFT INDUSTRIES	IAI 1123	Commodore Jet	IAI 1121/1123 (GE CJ610)
ISRAEL AIRCRAFT INDUSTRIES	IAI 1121	Jetcommander	IAI 1121/1123 (GE CJ610)
ISRAEL AIRCRAFT INDUSTRIES	IAI 1121A	Jetcommander	IAI 1121/1123 (GE CJ610)
ISRAEL AIRCRAFT INDUSTRIES	IAI 1121B	Jetcommander	IAI 1121/1123 (GE CJ610)
ISRAEL AIRCRAFT INDUSTRIES	IAI 1124	Westwind	IAI 1124 (Honeywell TFE731)
ISRAEL AIRCRAFT INDUSTRIES	IAI 1124A	Westwind	IAI 1124 (Honeywell TFE731)
JSC Sukhoi Civil Aircraft	RRJ-95B	Superjet 100	RRJ-95 (PowerJet SaM146)
LEARJET	23 (Learjet)		Learjet 23 (GE CJ610)
LEARJET	24		Learjet 24/25 (GE CJ610)
LEARJET	25		Learjet 24/25 (GE CJ610)
LEARJET	24A		Learjet 24/25 (GE CJ610)
LEARJET	24B		Learjet 24/25 (GE CJ610)
LEARJET	24B-A		Learjet 24/25 (GE CJ610)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
LEARJET	24D		Learjet 24/25 (GE CJ610)
LEARJET	24D-A		Learjet 24/25 (GE CJ610)
LEARJET	24F		Learjet 24/25 (GE CJ610)
LEARJET	24F-A		Learjet 24/25 (GE CJ610)
LEARJET	25B		Learjet 24/25 (GE CJ610)
LEARJET	25C		Learjet 24/25 (GE CJ610)
LEARJET	25D		Learjet 24/25 (GE CJ610)
LEARJET	25F		Learjet 24/25 (GE CJ610)
LEARJET	31		Learjet 31 (Honeywell TFE731)
LEARJET	31A		Learjet 31 (Honeywell TFE731)
LEARJET	35		Learjet 35/36 (Honeywell TFE731)
LEARJET	36		Learjet 35/36 (Honeywell TFE731)
LEARJET	35A		Learjet 35/36 (Honeywell TFE731)
LEARJET	36A		Learjet 35/36 (Honeywell TFE731)
LEARJET	Learjet Model 45	Learjet 45 Learjet 40 Learjet 75 Learjet 70	Learjet 45 (Honeywell TFE31)
LEARJET	55		Learjet 55 (Honeywell TFE731)
LEARJET	55B		Learjet 55 (Honeywell TFE731)
LEARJET	55C		Learjet 55 (Honeywell TFE731)
LEARJET	60	Learjet 60	Learjet 60 (PWC PW305)
LOCKHEED MARTIN Corporation	1329-25	JetStar II	Lockheed 1329 (Honeywell TFE731)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
LOCKHEED MARTIN Corporation	1329-23D	JetStar	Lockheed 1329 PW (PW JT12)
LOCKHEED MARTIN Corporation	188A	Electra	Lockheed 188 (RR Corp 501)
LOCKHEED MARTIN Corporation	188C	Electra	Lockheed 188 (RR Corp 501)
LOCKHEED MARTIN Corporation	328G	Hercules	Lockheed 382 (RR Corp 501)
LOCKHEED MARTIN Corporation	L-1011-385-1	TriStar	Lockheed L-1011 (RR RB211)
LOCKHEED MARTIN Corporation	L-1011-385-1-15	TriStar	Lockheed L-1011 (RR RB211)
LOCKHEED MARTIN Corporation	L-1011-385-3	TriStar	Lockheed L-1011 (RR RB211)
M7 AEROSPACE	SA226-AT		Fairchild SA226 Series (Honeywell TPE331)
M7 AEROSPACE	SA226-T		Fairchild SA226 Series (Honeywell TPE331)
M7 AEROSPACE	SA226-T(B)		Fairchild SA226 Series (Honeywell TPE331)
M7 AEROSPACE	SA226-TC		Fairchild SA226 Series (Honeywell TPE331)
M7 AEROSPACE	SA227-AC	Swearingen Metro	Fairchild SA227 Series (Honeywell TPE331)
M7 AEROSPACE	SA227-BC	Swearingen Metro	Fairchild SA227 Series (Honeywell TPE331)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
M7 AEROSPACE	SA227-AT		Fairchild SA227 Series (Honeywell TPE331)
M7 AEROSPACE	SA227-CC		Fairchild SA227 Series (Honeywell TPE331)
M7 AEROSPACE	SA227-DC		Fairchild SA227 Series (Honeywell TPE331)
M7 AEROSPACE	SA227-TT		Fairchild SA227 Series (Honeywell TPE331)
M7 AEROSPACE	SA227-PC	Swearingen Metro	Fairchild SA227 Series (PWC PT6)
M7 AEROSPACE	SA26AT		Fairchild SA26AT (Honeywell TPE331)
M7 AEROSPACE	SA-26-T		Fairchild 26-T (PWC PT6)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-10-10		DC-10/MD-10 (GE CF6)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-10-30		DC-10/MD-10 (GE CF6)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-10-30F		DC-10/MD-10 (GE CF6)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-71	DC-8-70	DC-8 (CFM56)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-71F	DC-8-70	DC-8 (CFM56)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-72	DC-8-70	DC-8 (CFM56)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-73	DC-8-70	DC-8 (CFM56)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-73F	DC-8-70	DC-8 (CFM56)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-52	DC-8	DC-8 (PW JT3D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-53	DC-8	DC-8 (PW JT3D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-55	DC-8	DC-8 (PW JT3D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8F-54	DC-8	DC-8 (PW JT3D)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8F-55	DC-8	DC-8 (PW JT3D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-61F	DC-8-60	DC-8 (PW JT3D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-62	DC-8-60	DC-8 (PW JT3D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-62F	DC-8-60	DC-8 (PW JT3D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-63	DC-8-60	DC-8 (PW JT3D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-63F	DC-8-60	DC-8 (PW JT3D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-8-33	DC-8	DC-8 (PW JT4A)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-14	DC-9	DC-9 (PW JT8D)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-15	DC-9	DC-9 (PW JT8D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-21	DC-9	DC-9 (PW JT8D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-32	DC-9	DC-9 (PW JT8D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-33F	DC-9	DC-9 (PW JT8D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-34	DC-9	DC-9 (PW JT8D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-34F	DC-9	DC-9 (PW JT8D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-41	DC-9	DC-9 (PW JT8D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-51	DC-9	DC-9 (PW JT8D)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
McDONNELL DOUGLAS Corporation BOEING COMPANY	717-200	717	MD 717-200 (RRD BR700-715)
McDONNELL DOUGLAS Corporation BOEING COMPANY	MD-11	MD-11	MD 11 (GE CF6)
McDONNELL DOUGLAS Corporation BOEING COMPANY	MD-11F	MD-11	MD 11 (GE CF6)
McDONNELL DOUGLAS Corporation BOEING COMPANY	MD-11	MD-11	MD 11 (PW 4000)
McDONNELL DOUGLAS Corporation BOEING COMPANY	MD-11F	MD-11	MD 11 (PW 4000)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-81 (MD-81)	MD-81	MD-80 Series (PW JT8D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-82 (MD-81)	MD-82	MD-80 Series (PW JT8D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-83 (MD-81)	MD-83	MD-80 Series (PW JT8D)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
McDONNELL DOUGLAS Corporation BOEING COMPANY	DC-9-87 (MD-81)	MD-87	MD-80 Series (PW JT8D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	MD-88		MD-80 Series (PW JT8D)
McDONNELL DOUGLAS Corporation BOEING COMPANY	MD-90 Series		MD-90 (IAE V2500)
MITSUBISHI Heavy Industries	MU-2B		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-10 (USA)		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-20		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-20 (USA)		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-25		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-26 (USA)		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-26A		Mitsubishi MU-2B (Honeywell TPE331)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
MITSUBISHI Heavy Industries	MU-2B-26A (USA)		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-30		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-35		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-36		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-36A (USA)		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-40 (USA)		Mitsubishi MU-2B (Honeywell TPE331)
MITSUBISHI Heavy Industries	MU-2B-60 (USA)		Mitsubishi MU-2B (Honeywell TPE331)
Nomad TC Pty Ltd	N22		Nomad N22/24 Series (RR Corp 250)
Nomad TC Pty Ltd	N22B		Nomad N22/24 Series (RR Corp 250)
Nomad TC Pty Ltd	N22C		Nomad N22/24 Series (RR Corp 250)
Nomad TC Pty Ltd	N22S		Nomad N22/24 Series (RR Corp 250)
Nomad TC Pty Ltd	N24		Nomad N22/24 Series (RR Corp 250)
Nomad TC Pty Ltd	N24A		Nomad N22/24 Series (RR Corp 250)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
PIAGGIO Aero Industries	P.166 DP1		Piaggio P166 (PWC PT6)
PIAGGIO Aero Industries	P180	Avanti	Piaggio P180 Avanti/Avanti II (PWC PT6)
PIAGGIO Aero Industries	P180	Avanti II	Piaggio P180 Avanti/Avanti II (PWC PT6)
PILATUS AIRCRAFT	PC-12		Pilatus PC-12 (PWC PT6)
PILATUS AIRCRAFT	PC-12/45		Pilatus PC-12 (PWC PT6)
PILATUS AIRCRAFT	PC-12/47		Pilatus PC-12 (PWC PT6)
PILATUS AIRCRAFT	PC-12/47E		Pilatus PC-12 (PWC PT6)
PILATUS AIRCRAFT	PC-24		Pilatus PC-12 (PWC PT6)
PILATUS AIRCRAFT	PC-12		Pilatus PC-24 (Williams FJ44)
PIPER AIRCRAFT	PA-31T (Cheyenne/ Cheyenne II)	Cheyenne / Cheyenne II	Piper PA-31T Series (PWC PT6)
PIPER AIRCRAFT	PA-31T1 (Chey. I/ Cheyenne IA)	Cheyenne I / Cheyenne 1A	Piper PA-31T Series (PWC PT6)
PIPER AIRCRAFT	PA-31T2 (Cheyenne IIXL)	Cheyenne IIXL	Piper PA-31T Series (PWC PT6)
PIPER AIRCRAFT	PA-31T3	T-1040	Piper PA-31T Series (PWC PT6)
PIPER AIRCRAFT	PA-42-1000 (Cheyenne 400LS)	Cheyenne 400LS	Piper PA-42 (Honeywell TPE-331)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
PIPER AIRCRAFT	PA-42 (Cheyenne III)	Cheyenne III	Piper PA-42 (PWC PT6)
PIPER AIRCRAFT	PA-42-720R	Cheyenne III	Piper PA-42 (PWC PT6)
PIPER AIRCRAFT	PA-42-720 (Cheyenne IIIA)	Cheyenne IIIA	Piper PA-42 (PWC PT6)
PIPER AIRCRAFT	PA-42-600TP	M600	Piper PA-46-500TP/600TP (PWC PT6)
PIPER AIRCRAFT	PA-42-500TP	Malibu Meridian	Piper PA-46-500TP/600TP (PWC PT6)
POLSKIE ZAKLADY LOTNICZE	PZL M28 00		PZL M 28 (PWC PT6)
POLSKIE ZAKLADY LOTNICZE	PZL M28 02		PZL M 28 (PWC PT6)
POLSKIE ZAKLADY LOTNICZE	PZL M28 05		PZL M 28 (PWC PT6)
POLSKIE ZAKLADY LOTNICZE	PZL M28 05		PZL M 28 (PWC PT6)
PT. DIRGANTARA INDONESIA	CN-235		CASA CN-235 (GE CT7)
PT. DIRGANTARA INDONESIA	CN-235-100		CASA CN-235 (GE CT7)
PT. DIRGANTARA INDONESIA	CN-235-110		CASA CN-235 (GE CT7)
RUAG Aerospace GmbH (DORNIER)	Dornier 228-100		Dornier 228 (Honeywell TPE331)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
RUAG Aerospace GmbH (DORNIER)	Dornier 228-101		Dornier 228 (Honeywell TPE331)
RUAG Aerospace GmbH (DORNIER)	Dornier 228-200		Dornier 228 (Honeywell TPE331)
RUAG Aerospace GmbH (DORNIER)	Dornier 228-201		Dornier 228 (Honeywell TPE331)
RUAG Aerospace GmbH (DORNIER)	Dornier 228-202		Dornier 228 (Honeywell TPE331)
RUAG Aerospace GmbH (DORNIER)	Dornier 228-212		Dornier 228 (Honeywell TPE331)
RUAG Aerospace GmbH (DORNIER)	Do 28 D-6		Dornier Do 28 Series (PWC PT6)
RUAG Aerospace GmbH (DORNIER)	Dornier 128-6		Dornier Do 28 Series (PWC PT6)
SAAB AB, SAAB Aerosystems	Saab SF340A	Saab-Fairchild 340A	Saab (SF) 340 (GE CT7)
SAAB AB, SAAB Aerosystems	Saab 340B		Saab (SF) 340 (GE CT7)
SAAB AB, SAAB Aerosystems	Saab 2000		Saab 2000 (RR Corp AE2100)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
SHORT BROTHERS PLC	SC7 Series 3	Skyvan	Shorts SC7 (Honeywell TPE331)
SHORT BROTHERS PLC	SD3-30	Variant 200	Shorts SD3 Series-30/SD3-60 (PWC PT6)
SHORT BROTHERS PLC	SD3-60	Variant 200	Shorts SD3 Series-30/SD3-60 (PWC PT6)
SHORT BROTHERS PLC	SD3-60 SHERPA	Variant 200	Shorts SD3 Series-30/SD3-60 (PWC PT6)
SHORT BROTHERS PLC	SD3-SHERPA	Variant 200	Shorts SD3 Series-30/SD3-60 (PWC PT6)
Textron Aviation Defense LLC	Model 3000 (PM Series)		Textron Defense 3000 (PWC PT6)
TEXTRON AVIATION Inc.	1900	Airliner	Beech 1900 (PWC PT6)
TEXTRON AVIATION Inc.	1900C	Airliner	Beech 1900 (PWC PT6)
TEXTRON AVIATION Inc.	1900D	Airliner	Beech 1900 (PWC PT6)
TEXTRON AVIATION Inc.	200C		Beech 200 Series (PWC PT6)
TEXTRON AVIATION Inc.	200CT		Beech 200 Series (PWC PT6)
TEXTRON AVIATION Inc.	200T		Beech 200 Series (PWC PT6)
TEXTRON AVIATION Inc.	A200		Beech 200 Series (PWC PT6)
TEXTRON AVIATION Inc.	A200C		Beech 200 Series (PWC PT6)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	A200CT		Beech 200 Series (PWC PT6)
TEXTRON AVIATION Inc.	B200C		Beech 200 Series (PWC PT6)
TEXTRON AVIATION Inc.	B200CGT		Beech 200 Series (PWC PT6)
TEXTRON AVIATION Inc.	B200CT		Beech 200 Series (PWC PT6)
TEXTRON AVIATION Inc.	B200GT		Beech 200 Series (PWC PT6)
TEXTRON AVIATION Inc.	B200T		Beech 200 Series (PWC PT6)
TEXTRON AVIATION Inc.	300	Super King Air	Beech 300 Series (PWC PT6)
TEXTRON AVIATION Inc.	B300	Super King Air 350	Beech 300 Series (PWC PT6)
TEXTRON AVIATION Inc.	B300C	Super King Air 350 C	Beech 300 Series (PWC PT6)
TEXTRON AVIATION Inc.	390	Premier I (RB s/n 1-101 and 103-134). Premier IA (avionics and interior upgrades s/n 102 and 135).	Beech 390 (Williams FJ44)
TEXTRON AVIATION Inc.	65-90	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	65-A90	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	65-A90-1	King Air	Beech 90 Series (PWC PT6)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	65-A90-2	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	65-A90-3	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	65-A90-4	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	B90	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	C90	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	C90A	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	C90GT	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	C90GTi	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	E90	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	H90	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	C90GTi	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	E90	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	H90	King Air	Beech 90 Series (PWC PT6)
TEXTRON AVIATION Inc.	A100-1	King Air	Beech 99/100 Series (PWC PT6)
TEXTRON AVIATION Inc.	402C	Businessliner Utiliner	Cessna 400 Series (Continental)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	402C	Businessliner Utiliner	Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	414A	Chancellor	Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	421B	Golden Eagle	Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	421C	Golden Eagle	Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	404	Titan	Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	401		Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	402		Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	411		Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	414		Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	421		Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	401A		Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	401B		Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	402A		Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	402B		Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	411A		Cessna 400 Series (Continental)
TEXTRON AVIATION Inc.	421A		Cessna 400 Series (Continental)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	425	Corsair / Conquest I	Cessna 425 (PWC PT6)
TEXTRON AVIATION Inc.	441	Conquest	Cessna 441 (Honeywell TPE331)
TEXTRON AVIATION Inc.	560	Citation V Citation Ultra	Cessna 500/550/560 (PWC JT15D)
TEXTRON AVIATION Inc.	500	Citation / Citation I	Cessna 500/550/560 (PWC JT15D)
TEXTRON AVIATION Inc.	550	Citation II	Cessna 500/550/560 (PWC JT15D)
TEXTRON AVIATION Inc.	S550	Citation S/II C	Cessna 500/550/560 (PWC JT15D)
TEXTRON AVIATION Inc.	501	Citation I	Cessna 501/551 (PWC JT15D)
TEXTRON AVIATION Inc.	551	Citation II	Cessna 501/551 (PWC JT15D)
TEXTRON AVIATION Inc.	510	Citation Mustang	Cessna 510 (PWC PW615)
TEXTRON AVIATION Inc.	525	Citation Jet (CJ) (s/n 1 - 359); Citation Jet 1 (CJ1) (s/n 360 - 599); Citation Jet1+ (CJ1+) (s/n 600 - 684 and 686 - 701); M2 (s/n 800 – and up).	Cessna 525/525A/525B (Williams FJ44)
TEXTRON AVIATION Inc.	525A	Citation Jet CJ2	Cessna 525/525A/525B (Williams FJ44)
TEXTRON AVIATION Inc.	525B	Citation Jet CJ3	Cessna 525/525A/525B (Williams FJ44)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	525C	Citation Jet CJ4	Cessna 525C (Williams FJ44)
TEXTRON AVIATION Inc.	550	Citation Bravo	Cessna 550/560 (PWC PW530/535)
TEXTRON AVIATION Inc.	560	Citation Encore Citation Encore +	Cessna 550/560 (PWC PW530/535)
TEXTRON AVIATION Inc.	560XL	Citation Excel Citation XLS Citation XLS+	Cessna 560XL/XLS (PWC PW545)
TEXTRON AVIATION Inc.	650	Citation III Citation VI Citation VII	Cessna 650 (Honeywell TFE731)
TEXTRON AVIATION Inc.	680	Citation Sovereign Citation Sovereign +	Cessna 680 (PWC PW306)
TEXTRON AVIATION Inc.	680A	Latitude	Cessna 680 (PWC PW306)
TEXTRON AVIATION Inc.	750	Citation X	Cessna 750 (RR AE3007C)
TEXTRON AVIATION Inc.	4000	Hawker 4000	Hawker 4000 (PWC PW308)
TUPOLEV PSC	TU 204-120CE		Tupolev TU 204 (RR RB211)
Turkish Aerospace Industries, Inc. (TAI)	TT32	HÜRKUŞ	TAI TT32 (PWC PT6)
TWIN COMMANDER AIRCRAFT Corporation	681	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
TWIN COMMANDER AIRCRAFT Corporation	681	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)
TWIN COMMANDER AIRCRAFT Corporation	690	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)
TWIN COMMANDER AIRCRAFT Corporation	695	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)
TWIN COMMANDER AIRCRAFT Corporation	680T	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)
TWIN COMMANDER AIRCRAFT Corporation	680V	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)
TWIN COMMANDER AIRCRAFT Corporation	680W	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)
TWIN COMMANDER AIRCRAFT Corporation	690A	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)
TWIN COMMANDER AIRCRAFT Corporation	690B	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)
TWIN COMMANDER AIRCRAFT Corporation	690C	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
TWIN COMMANDER AIRCRAFT Corporation	690D	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)
TWIN COMMANDER AIRCRAFT Corporation	695A	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)
TWIN COMMANDER AIRCRAFT Corporation	695B	Twin Commander	Twin Commander 680/681/690/695 Series (Honeywell TPE331)
VIKING AIR (Bombardier) (De Havilland)	DHC-6 Series 400	Twin otter	De Havilland DHC-6 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-6 Series 1	Twin otter	De Havilland DHC-6 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-6 Series 100	Twin otter	De Havilland DHC-6 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-6 Series 110	Twin otter	De Havilland DHC-6 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-6 Series 200	Twin otter	De Havilland DHC-6 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-6 Series 210	Twin otter	De Havilland DHC-6 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-6 Series 300	Twin otter	De Havilland DHC-6 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-6 Series 310	Twin otter	De Havilland DHC-6 (PWC PT6)

GROUP 1 AEROPLANES			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
VIKING AIR (Bombardier) (De Havilland)	DHC-6 Series 320	Twin otter	De Havilland DHC-6 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-7-100		De Havilland DHC-7 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-7-101		De Havilland DHC-7 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-7-102		De Havilland DHC-7 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-7-103		De Havilland DHC-7 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-7-110		De Havilland DHC-7 (PWC PT6)
VIKING AIR (Bombardier) (De Havilland)	DHC-7-111		De Havilland DHC-7 (PWC PT6)
VULCANAIR	AP68TP-300 ‘Spartacus’	Spartacus	Vulcanair AP68TP Series (RR Corp 250)
VULCANAIR	AP68TP-600 ‘Viator’	Viator	Vulcanair AP68TP Series (RR Corp 250)
VULCANAIR	SF600		Vulcanair SF600 (RR Corp 250)
VULCANAIR	SF600A		Vulcanair SF600 (RR Corp 250)

GROUP 1 HELICOPTERS			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AGUSTA	AB 204B		Agusta AB204, AB205 / Bell 204, 205 (Honeywell T53)
AGUSTA	AB 205 A-1		Agusta AB204, AB205 / Bell 204, 205 (Honeywell T53)
AGUSTA	AS-61N		Agusta AS61N/Sikorsky S-61N (GE CT58)
AGUSTA	AS-61N1		Agusta AS61N/Sikorsky S-61N (GE CT58)
AIRBUS HELICOPTERS	AS 332 C	SUPER PUMA Mk I	Eurocopter AS 332 (Turbomeca Makila 1A/1A1)
AIRBUS HELICOPTERS	AS 332 C1	SUPER PUMA Mk I	Eurocopter AS 332 (Turbomeca Makila 1A/1A1)
AIRBUS HELICOPTERS	AS 332 L	SUPER PUMA Mk I	Eurocopter AS 332 (Turbomeca Makila 1A/1A1)
AIRBUS HELICOPTERS	AS 332 L1	SUPER PUMA Mk I	Eurocopter AS 332 (Turbomeca Makila 1A/1A1)
AIRBUS HELICOPTERS	AS 332 L2		Eurocopter AS 332 L2 (Turbomeca Makila 1A2)
AIRBUS HELICOPTERS	AS 355 E	Ecureuil II / TwinStar	Eurocopter AS 355 (RR Corp 250)
AIRBUS HELICOPTERS	AS 355 F	Ecureuil II / TwinStar	Eurocopter AS 355 (RR Corp 250)
AIRBUS HELICOPTERS	AS 355 F1	Ecureuil II / TwinStar	Eurocopter AS 355 (RR Corp 250)
AIRBUS HELICOPTERS	AS 355 F2	Ecureuil II / TwinStar	Eurocopter AS 355 (RR Corp 250)
AIRBUS HELICOPTERS	AS 355 N	Ecureuil II / TwinStar	Eurocopter AS 355 (Turbomeca Arrius 1)
AIRBUS HELICOPTERS	AS 355 NP	Ecureuil II / TwinStar	Eurocopter AS 355 (Turbomeca Arrius 1)
AIRBUS HELICOPTERS	AS 365 N3	Dauphin	Eurocopter AS 365 N3 (Turbomeca Arriel 2C)

GROUP 1 HELICOPTERS			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS HELICOPTERS	EC 155 B		Eurocopter EC 155 (Turbomeca Arriel 2)
AIRBUS HELICOPTERS	EC 155 B1		Eurocopter EC 155 (Turbomeca Arriel 2)
AIRBUS HELICOPTERS	EC 175 B		Eurocopter EC 175 (PWC PT6C)
AIRBUS HELICOPTERS	EC 225 LP	SUPER PUMA Mk II+ or LP	Eurocopter EC 225 (Turbomeca Makila 2A)
AIRBUS HELICOPTERS	SA 330 J		Eurocopter SA 330 (Turbomeca Turmo)
AIRBUS HELICOPTERS	SA 365 C1	Dauphin	Eurocopter SA 365 C Series (Turbomeca Arriel 1)
AIRBUS HELICOPTERS	SA 365 C2	Dauphin	Eurocopter SA 365 C Series (Turbomeca Arriel 1)
AIRBUS HELICOPTERS	SA 365 C3	Dauphin	Eurocopter SA 365 C Series (Turbomeca Arriel 1)
AIRBUS HELICOPTERS	AS 365 N2	Dauphin	Eurocopter SA 365 N/N1, AS 365 N2 (Turbomeca Arriel 1)
AIRBUS HELICOPTERS	AS 365 N1	Dauphin	Eurocopter SA 365 N/N1, AS 365 N2 (Turbomeca Arriel 1)
AIRBUS HELICOPTERS	AS 365 N	Dauphin	Eurocopter SA 365 N/N1, AS 365 N2 (Turbomeca Arriel 1)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 P3H		AIRBUS HELICOPTERS EC135 P3H (PWC PW206)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC635 P3H		AIRBUS HELICOPTERS EC135 P3H (PWC PW206)

GROUP 1 HELICOPTERS			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 T3H		AIRBUS HELICOPTERS EC135 T3H (Turbomeca Arrius 2B)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC635 T3H		AIRBUS HELICOPTERS EC135 T3H (Turbomeca Arrius 2B)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	BO 105 A		BO 105 series (RR Corp 250)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	BO 105 C		BO 105 series (RR Corp 250)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	BO 105 D		BO 105 series (RR Corp 250)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	BO 105 LS A-1		BO 105 series (RR Corp 250)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	BO 105 LS A-3		BO 105 series (RR Corp 250)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	BO 105 S		BO 105 series (RR Corp 250)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 P1 (CDS)		Eurocopter EC 135 (PWC PW206)

GROUP 1 HELICOPTERS			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 P1 (CPDS)		Eurocopter EC 135 (PWC PW206)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 P2 (CDS)		Eurocopter EC 135 (PWC PW206)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 P2+		Eurocopter EC 135 (PWC PW206)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 P3 (CPDS)		Eurocopter EC 135 (PWC PW206)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC635 P2+		Eurocopter EC 135 (PWC PW206)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC635 P3 (CPDS)		Eurocopter EC 135 (PWC PW206)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 T2+		Eurocopter EC 135 (Turbomeca Arrius 2B)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 T1 (CDS)		Eurocopter EC 135 (Turbomeca Arrius 2B)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 T1 (CPDS)		Eurocopter EC 135 (Turbomeca Arrius 2B)

GROUP 1 HELICOPTERS			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 T2 (CPDS)		Eurocopter EC 135 (Turbomeca Arrius 2B)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC135 T3 (CPDS)		Eurocopter EC 135 (Turbomeca Arrius 2B)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC635 T1		Eurocopter EC 135 (Turbomeca Arrius 2B)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC635 T2+		Eurocopter EC 135 (Turbomeca Arrius 2B)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	EC635 T3		Eurocopter EC 135 (Turbomeca Arrius 2B)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	MBB –BK117 A-1		Eurocopter MBB-BK 117 A/B (Honeywell LTS 101)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	MBB –BK117 A-3		Eurocopter MBB-BK 117 A/B (Honeywell LTS 101)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	MBB –BK117 A-4		Eurocopter MBB-BK 117 A/B (Honeywell LTS 101)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	MBB –BK117 B-1		Eurocopter MBB-BK 117 A/B (Honeywell LTS 101)

GROUP 1 HELICOPTERS			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	MBB –BK117 B-2		Eurocopter MBB-BK 117 A/B (Honeywell LTS 101)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	MBB –BK117 C-1		Eurocopter MBB-BK 117 A/B (Honeywell LTS 101)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	MBB –BK117 C-2	EC145	Eurocopter MBB-BK 117 C2 (Turbomeca Arriel 1)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	MBB –BK117 C-2e	EC145	Eurocopter MBB-BK 117 C2 (Turbomeca Arriel 1)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	MBB –BK117 D-2	EC145 T2	Eurocopter MBB-BK 117 D2 (Turbomeca Arriel 2)
AIRBUS HELICOPTERS DEUTSCH-LAND GmbH	MBB –BK117 D-2m	H145	Eurocopter MBB-BK 117 D2 (Turbomeca Arriel 2)
BELL HELICOPTER CANADA	222		Bell 222 (Honeywell LTS 101)
BELL HELICOPTER CANADA	222B		Bell 222 (Honeywell LTS 101)
BELL HELICOPTER CANADA	222U		Bell 222 (Honeywell LTS 101)
BELL HELICOPTER CANADA	230	230 Executive 230 Utility 230 EMS	Bell 230 (RR Corp 250)

GROUP 1 HELICOPTERS			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BELL HELICOPTER CANADA	427		Bell 427 (PWC PW207D)
BELL HELICOPTER CANADA	429		Bell 429 (PWC PW207D)
BELL HELICOPTER CANADA	430		Bell 430 (RR Corp)
BELL HELICOPTER TEXTRON, INC.	204B		Agusta AB204, AB205 / Bell 204, 205 (Honeywell T53)
BELL HELICOPTER TEXTRON, INC.	205A-1		Agusta AB204, AB205 / Bell 204, 205 (Honeywell T53)
BELL HELICOPTER TEXTRON, INC.	212		Bell 212 / Agusta AB212 (PWC PT6)
BELL HELICOPTER TEXTRON, INC.	214B		Bell 214 (Honeywell T5508)
BELL HELICOPTER TEXTRON, INC.	214B-1		Bell 214 (Honeywell T5508)
BELL HELICOPTER TEXTRON, INC.	214ST		Bell 214ST (GE CT7)
BELL HELICOPTER TEXTRON, INC.	412		Bell 412 / Agusta AB412 (PWC PT6)

GROUP 1 HELICOPTERS			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BELL HELICOPTER TEXTRON, INC.	412EP		Bell 412 / Agusta AB412 (PWC PT6)
ERICKSON AIR-CRANE	S-64F		Erickson S-64 (PW JFTD 12)
KAMAN AEROSPACE CORPORATION	K-1200		Kaman K-1200 (Honeywell T5317)
KAMOV	Ka-32A11BC		Kamov Ka 32 (Klimov)
LEONARDO S.p.A.	A109K2		Agusta A109 (Turbomeca Arriel 1)
LEONARDO S.p.A.	A109S	Grand AW109S	Agusta A109 Series (PWC PW206/207)
LEONARDO S.p.A.	AW109SP	GrandNew	Agusta A109 Series (PWC PW206/207)
LEONARDO S.p.A.	A109N	Nexus AW109N	Agusta A109 Series (PWC PW206/207)
LEONARDO S.p.A.	A109E	Power AW109E	Agusta A109 Series (PWC PW206/207)
LEONARDO S.p.A.	A109		Agusta A109 Series (RR Corp 250)
LEONARDO S.p.A.	A109A		Agusta A109 Series (RR Corp 250)
LEONARDO S.p.A.	A109AII		Agusta A109 Series (RR Corp 250)
LEONARDO S.p.A.	A109C		Agusta A109 Series (RR Corp 250)
LEONARDO S.p.A.	A109LUH	AW109LUH	Agusta A109 Series (Turbomeca Arrius 2)
LEONARDO S.p.A.	A109E	Power AW109E	Agusta A109 Series (Turbomeca Arrius 2)

GROUP 1 HELICOPTERS			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
LEONARDO S.p.A.	AB139		Agusta AB139 / AW139 (PWC PT6)
LEONARDO S.p.A.	AW139		Agusta AB139 / AW139 (PWC PT6)
LEONARDO S.p.A.	EH 101-300		Agusta/Westland EH-101 (GE CT7)
LEONARDO S.p.A.	EH 101-500		Agusta/Westland EH-101 (GE CT7)
LEONARDO S.p.A.	EH 101-510		Agusta/Westland EH-101 (GE CT7)
LEONARDO S.p.A.	AW169		AW169 (PWC 120)
LEONARDO S.p.A.	AW189		AW189 (GE CT7)
LEONARDO S.p.A.	AB 212		Bell 212 / Agusta AB212 (PWC PT6)
LEONARDO S.p.A.	AB 412		Bell 412 / Agusta AB412 (PWC PT6)
LEONARDO S.p.A.	AB 412 EP		Bell 412 / Agusta AB412 (PWC PT6)
MD HELICOPTERS, Inc.	MD900		MD Helicopters MD900 (PWC PW206/207)
Philippine Aerospace Development Corp	P-BO 105 C		BO 105 series (RR Corp 250)
Philippine Aerospace Development Corp	P-BO 105 S		BO 105 series (RR Corp 250)

GROUP 1 HELICOPTERS			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
PZL-ŚWIDNIK	W-3A		PZL-Swidnik W-3A/W-3AS (Rzeszow PZL-10W)
PZL-ŚWIDNIK	W-3AS		PZL-Swidnik W-3A/W-3AS (Rzeszow PZL-10W)
SIKORSKY AIRCRAFT	S-61N		Agusta AS61N/Sikorsky S-61N (GE CT58)
SIKORSKY AIRCRAFT	S-61NM		Agusta AS61N/Sikorsky S-61N (GE CT58)
SIKORSKY AIRCRAFT	S-58BT		Sikorsky S-58 (PWC PT6T)
SIKORSKY AIRCRAFT	S-58DT		Sikorsky S-58 (PWC PT6T)
SIKORSKY AIRCRAFT	S-58ET		Sikorsky S-58 (PWC PT6T)
SIKORSKY AIRCRAFT	S-58FT		Sikorsky S-58 (PWC PT6T)
SIKORSKY AIRCRAFT	S-58HT		Sikorsky S-58 (PWC PT6T)
SIKORSKY AIRCRAFT	S-58JT		Sikorsky S-58 (PWC PT6T)
SIKORSKY AIRCRAFT	S-76A	S-76A+ S-76A++	Sikorsky S-76 (Turbomeca Arriel 1)
SIKORSKY AIRCRAFT	S-76A		Sikorsky S-76A (RR Corp 250)
SIKORSKY AIRCRAFT	S-76B	S-76B	Sikorsky S-76B (PWC PT6)
SIKORSKY AIRCRAFT	S-76C		Sikorsky S-76C (Turbomeca Arriel 1)
SIKORSKY AIRCRAFT	S-76C	S-76C+ S-76C++	Sikorsky S-76C (Turbomeca Arriel 2)

GROUP 1 HELICOPTERS			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
SIKORSKY AIRCRAFT	S-76D	S-76C+ S-76C++	Sikorsky S-76D (PW210S)
SIKORSKY AIRCRAFT	S-92A		Sikorsky S-92A (GE CT7-8)

GROUP 1 GAS AIRSHIPS (OTHER THAN LA2)			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
Skyship Services	Skyship 600		Skyship (Porsche)
Worldwide Aeros Corporation	Aeros 40B		Worldwide Aeros (Continental)
Zeppelin Luftschifftechnik GmbH & Co KG	LZ N07-100		Zeppelin LZ N07 (Lycoming)
Zeppelin Luftschifftechnik GmbH & Co KG	LZ N07-101		Zeppelin LZ N07 (Lycoming)

SUBGROUP 2A: SINGLE TURBO-PROPELLER			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AERO VODOCHODY	Ae 270		Aero Ae-270 (PWC PT6)
AIR TRACTOR, INC.	AT-302		Air Tractor AT-302 (Lycoming LTP101)
AIR TRACTOR, INC.	AT-400		Air Tractor AT-400/500/600 Series (PWC PT6)
AIR TRACTOR, INC.	AT-400A		Air Tractor AT-400/500/600 Series (PWC PT6)
AIR TRACTOR, INC.	AT-402		Air Tractor AT-400/500/600 Series (PWC PT6)
AIR TRACTOR, INC.	AT-402A		Air Tractor AT-400/500/600 Series (PWC PT6)
AIR TRACTOR, INC.	AT-402B		Air Tractor AT-400/500/600 Series (PWC PT6)
AIR TRACTOR, INC.	AT-502		Air Tractor AT-400/500/600 Series (PWC PT6)
AIR TRACTOR, INC.	AT-502A		Air Tractor AT-400/500/600 Series (PWC PT6)
AIR TRACTOR, INC.	AT-502B		Air Tractor AT-400/500/600 Series (PWC PT6)
AIR TRACTOR, INC.	AT-503		Air Tractor AT-400/500/600 Series (PWC PT6)
AIR TRACTOR, INC.	AT-503A		Air Tractor AT-400/500/600 Series (PWC PT6)
AIR TRACTOR, INC.	AT-602		Air Tractor AT-400/500/600 Series (PWC PT6)
ALLIED AG CAT Productions	G-164D		Grumman G-164 (PWC PT6)
ALLIED AG CAT Productions	G-164D with 73’ wing gap		Grumman G-164 (PWC PT6)

SUBGROUP 2a: SINGLE TURBO-PROPELLER			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
EADS PZL 'WARSZAWA-OKECIE'	PZL-106 BT-601 TURBO KRUK		EADS PZL PZL-106 BT (Walter M601)
EADS PZL 'WARSZAWA-OKECIE'	PZL-106 BT-34 TURBO KRUK		EADS PZL PZL-106 BTU (PWC PT6)
GROB Aircraft AG	G 120TP-A		Grob G 120TP (RR Corp 250)
LEONARDO S.p.A.	SF260TP		Aermacchi SF260 (RR M250)
PACIFIC AEROSPACE Corporation	750XL		PAC 750XL (PWC PT6)
PILATUS AIRCRAFT	PC-6/B1-H2		Pilatus PC-6 (PWC PT6)
PILATUS AIRCRAFT	PC-6/B2-H2		Pilatus PC-6 (PWC PT6)
PILATUS AIRCRAFT	PC-6/B2-H4		Pilatus PC-6 (PWC PT6)
PILATUS AIRCRAFT	PC-6/B-H2		Pilatus PC-6 (PWC PT6)
PILATUS AIRCRAFT	PC-6/C1-H2		Pilatus PC-6 Series (Honeywell TPE 331)
PILATUS AIRCRAFT	PC-6/C-H2		Pilatus PC-6 Series (Honeywell TPE 331)
PILATUS AIRCRAFT	PC-6/A		Pilatus PC-6 Series (Turbomeca Astazou)
PILATUS AIRCRAFT	PC-6/A1-H2		Pilatus PC-6 Series (Turbomeca Astazou)
PILATUS AIRCRAFT	PC-6/A2-H2		Pilatus PC-6 Series (Turbomeca Astazou)
PILATUS AIRCRAFT	PC-6/A-H1		Pilatus PC-6 Series (Turbomeca Astazou)

SUBGROUP 2a: SINGLE TURBO-PROPELLER			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
PILATUS AIRCRAFT	PC-6/A-H2		Pilatus PC-6 Series (Turbomeca Astazou)
Quest Aircraft Design LLC	Kodiak 100		Quest Kodiak 100 (PWC PT6)
SST FLUGTECHNIK GmbH	EA 400-500	EXTRA 500	Extra EA-400-500 (RR Corp 250)
TEXTRON AVIATION Inc.	208	Caravan I	Cessna 208 Series (PWC PT6)
TEXTRON AVIATION Inc.	208B	Caravan II	Cessna 208 Series (PWC PT6)
THRUSH AIRCRAFT	S2R-H80		Thrush S2R Series (GEAC H80)
THRUSH AIRCRAFT	600 S-2D		Thrush S2R Series (PWC PT6)
THRUSH AIRCRAFT	S2RHG-T34		Thrush S2R Series (PWC PT6)
THRUSH AIRCRAFT	S2RHG-T65		Thrush S2R Series (PWC PT6)
THRUSH AIRCRAFT	S2R-T11		Thrush S2R Series (PWC PT6)
THRUSH AIRCRAFT	S2R-T15		Thrush S2R Series (PWC PT6)
THRUSH AIRCRAFT	S2R-T34		Thrush S2R Series (PWC PT6)
THRUSH AIRCRAFT	S2R-T45		Thrush S2R Series (PWC PT6)
THRUSH AIRCRAFT	S2R-T65		Thrush S2R Series (PWC PT6)
THRUSH AIRCRAFT	S2R-T660		Thrush S2R Series (PWC PT6)
THRUSH AIRCRAFT	S2R-G1		Thrush S2R Series (TPE331)

SUBGROUP 2a: SINGLE TURBO-PROPELLER			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
THRUSH AIRCRAFT	S2R-G10		Thrush S2R Series (TPE331)
THRUSH AIRCRAFT	S2R-G5		Thrush S2R Series (TPE331)
THRUSH AIRCRAFT	S2R-G6		Thrush S2R Series (TPE331)
VIKING AIR (Bombardier) (De Havilland)	DHC-2 MK III (Turbo-Beaver)	Turbo-Beaver	De Havilland DHC-2 (PWC PT6)
ZLIN AIRCRAFT	Z 137 T		Zlin Z-37 T Series (Walter M601)
ZLIN AIRCRAFT	Z 37 T		Zlin Z-37 T Series (Walter M601)

SUBGROUP 2B: SINGLE TURBINE ENGINE HELICOPTER (OTHER THAN THOSE IN GROUP 1)			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS HELICOPTERS	AS 350 D		Eurocopter AS 350 (Lycoming LTS101)
AIRBUS HELICOPTERS	AS 350 B	Écureuil	Eurocopter AS 350 (Turbomeca Arriel 1)
AIRBUS HELICOPTERS	AS 350 B1	Écureuil	Eurocopter AS 350 (Turbomeca Arriel 1)
AIRBUS HELICOPTERS	AS 350 B2	Écureuil	Eurocopter AS 350 (Turbomeca Arriel 1)
AIRBUS HELICOPTERS	AS 350 BA	Écureuil	Eurocopter AS 350 (Turbomeca Arriel 1)
AIRBUS HELICOPTERS	AS 350 BB	Écureuil	Eurocopter AS 350 (Turbomeca Arriel 1)
AIRBUS HELICOPTERS	AS 350 B3	Écureuil	Eurocopter AS 350 (Turbomeca Arriel 1)
AIRBUS HELICOPTERS	EC 120 B	Colibri	Eurocopter EC 120 (Turbomeca Arrius 2F)
AIRBUS HELICOPTERS	EC 130 B4		Eurocopter EC 130 (Turbomeca Arriel 2)
AIRBUS HELICOPTERS	EC 130 T2		Eurocopter EC 130 (Turbomeca Arriel 2)
AIRBUS HELICOPTERS	SA 315 B	Alouette III Lama	Eurocopter SA 315B (Turbomeca Artouste)
AIRBUS HELICOPTERS	SA 316 B	Alouette III	Eurocopter SA 316 B/SA 316 C (Turbomeca Artouste)
AIRBUS HELICOPTERS	SA 316 C	Alouette III	Eurocopter SA 316 B/SA 316 C (Turbomeca Artouste)
AIRBUS HELICOPTERS	SE 3160	Alouette III	Eurocopter SA 316 B/SA 316 C (Turbomeca Artouste)
AIRBUS HELICOPTERS	SA 318 B	Alouette-Astazou	Eurocopter SA 318 (Turbomeca Astazou)
AIRBUS HELICOPTERS	SA 318 C	Alouette-Astazou	Eurocopter SA 318 (Turbomeca Astazou)

SUBGROUP 2b: SINGLE TURBINE ENGINE HELICOPTER (other than those in Group 1)			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
AIRBUS HELICOPTERS	SA 3180	Alouette-Astazou	Eurocopter SA 318 (Turbomeca Astazou)
AIRBUS HELICOPTERS	SA 319 B	Alouette III	Eurocopter SA 319 (Turbomeca Astazou XIV)
AIRBUS HELICOPTERS	SA 341 G	Gazelle	Eurocopter SA 341 (Turbomeca Astazou)
AIRBUS HELICOPTERS	SA 341 J	Gazelle	Eurocopter SA 342 J (Turbomeca Astazou XIV)
BELL HELICOPTER CANADA	407		Bell 407 (RR Corp 250)
BELL HELICOPTER TEXTRON CANADA LIMITED	206A		Agusta AB206 / Bell 206 (RR Corp 250)
BELL HELICOPTER TEXTRON CANADA LIMITED	206A-1		Agusta AB206 / Bell 206 (RR Corp 250)
BELL HELICOPTER TEXTRON CANADA LIMITED	206B		Agusta AB206 / Bell 206 (RR Corp 250)
BELL HELICOPTER TEXTRON CANADA LIMITED	206L		Agusta AB206 / Bell 206 (RR Corp 250)
BELL HELICOPTER TEXTRON CANADA LIMITED	206L-1		Agusta AB206 / Bell 206 (RR Corp 250)

SUBGROUP 2b: SINGLE TURBINE ENGINE HELICOPTER (other than those in Group 1)			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
BELL HELICOPTER TEXTRON CANADA LIMITED	206L-3		Agusta AB206 / Bell 206 (RR Corp 250)
BELL HELICOPTER TEXTRON CANADA LIMITED	206L-4		Agusta AB206 / Bell 206 (RR Corp 250)
BELL HELICOPTER TEXTRON CANADA LIMITED	505		Bell 505 (Safran Arrius 2R)
LEONARDO S.p.A.	A119	Koala	Agusta A119/ Agusta AW119MkII (PWC PT6)
LEONARDO S.p.A.	AW119MkII	Koala enhanced AW110Ke	Agusta A119/ Agusta AW119MkII (PWC PT6)
LEONARDO S.p.A.	AB206 A		Agusta AB206 / Bell 206 (RR Corp 250)
LEONARDO S.p.A.	AB206 B		Agusta AB206 / Bell 206 (RR Corp 250)
MD HELICOPTERS INC. (MDHI)	369D		MD Helicopters 369 Series / SEI NH-500D (RR Corp 250)
MD HELICOPTERS INC. (MDHI)	369E		MD Helicopters 369 Series / SEI NH-500D (RR Corp 250)
MD HELICOPTERS INC. (MDHI)	369FF		MD Helicopters 369 Series / SEI NH-500D (RR Corp 250)
MD HELICOPTERS INC. (MDHI)	369H		MD Helicopters 369 Series / SEI NH-500D (RR Corp 250)

SUBGROUP 2b: SINGLE TURBINE ENGINE HELICOPTER (other than those in Group 1)			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
MD HELICOPTERS INC. (MDHI)	369HE		MD Helicopters 369 Series / SEI NH-500D (RR Corp 250)
MD HELICOPTERS INC. (MDHI)	369HM		MD Helicopters 369 Series / SEI NH-500D (RR Corp 250)
MD HELICOPTERS INC. (MDHI)	369HS		MD Helicopters 369 Series / SEI NH-500D (RR Corp 250)
MD HELICOPTERS INC. (MDHI)	600N	HU60	MD Helicopters 500N/600N AMD500N (RR Corp 250)
MD HELICOPTERS INC. (MDHI)	500N		MD Helicopters 500N/600N AMD500N (RR Corp 250)
Mecaer Aviation Group	NH-500D		MD Helicopters 369 Series / SEI NH-500D (RR Corp 250)
Mecaer Aviation Group	NH-AMD500N		MD Helicopters 500N/600N AMD500N (RR Corp 250)
PZL-ŚWIDNIK	SW-4		PZL SW-4 (RR Corp 250)
ROBINSON HELICOPTER COMPANY	R 66		Robinson R66 (RR Corp 250)
Schweizer RSG LLC	269D		Schweizer 269D (RR Corp 250)
THE ENSTROM HELICOPTER CORPORATION	480		Enstrom 480 (RR Corp 250)
THE ENSTROM HELICOPTER CORPORATION	480B		Enstrom 480 (RR Corp 250)

SUBGROUP 2b: SINGLE TURBINE ENGINE HELICOPTER (other than those in Group 1)			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
ANTARES INTERNATIONAL (Aircraft with SAS)	SH-4		Silvercraft SH-4 (Franklin)
BRANTLY INTERNATIONAL, INC.	B-2	Military YHO 3BR	Brantly B2 (Lycoming)
BRANTLY INTERNATIONAL, INC.	305		Brantly B2 (Lycoming)
BRANTLY INTERNATIONAL, INC.	B-2A		Brantly B2 (Lycoming)
BRANTLY INTERNATIONAL, INC.	B-2B		Brantly B2 (Lycoming)
HELICOPTÈRES GUIMBAL	CABRI G2	Cabri	Cabri G2 (Lycoming)
Mecaer Aviation Group	NH-300C	Model 300C	Mecaer 269/300 (Lycoming)
ROBINSON HELICOPTER COMPANY	R 22		Robinson R22/R44 Series (Lycoming)
ROBINSON HELICOPTER COMPANY	R 44	Astro Raven	Robinson R22/R44 Series (Lycoming)
ROBINSON HELICOPTER COMPANY	R 22 Alpha		Robinson R22/R44 Series (Lycoming)
ROBINSON HELICOPTER COMPANY	R 22 Beta		Robinson R22/R44 Series (Lycoming)
ROBINSON HELICOPTER COMPANY	R 22 Mariner		Robinson R22/R44 Series (Lycoming)

SUBGROUP 2b: SINGLE TURBINE ENGINE HELICOPTER (other than those in Group 1)			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
ROBINSON HELICOPTER COMPANY	R44 II	Raven II	Robinson R22/R44 Series (Lycoming)
SIKORSKY AIRCRAFT	S-58B		Sikorsky S-58 (Wright Cyclone)
SIKORSKY AIRCRAFT	S-58C		Sikorsky S-58 (Wright Cyclone)
SIKORSKY AIRCRAFT	S-58D		Sikorsky S-58 (Wright Cyclone)
SIKORSKY AIRCRAFT	S-58E		Sikorsky S-58 (Wright Cyclone)
SIKORSKY AIRCRAFT	S-58F		Sikorsky S-58 (Wright Cyclone)
SIKORSKY AIRCRAFT	S-58G		Sikorsky S-58 (Wright Cyclone)
SIKORSKY AIRCRAFT	S-58H		Sikorsky S-58 (Wright Cyclone)
SIKORSKY AIRCRAFT	S-58J		Sikorsky S-58 (Wright Cyclone)
Schweizer RSG LLC	269A	Model 300C	Schweizer 269/300 (Lycoming)
Schweizer RSG LLC	269B	Model 300C	Schweizer 269/300 (Lycoming)
Schweizer RSG LLC	269C	Model 300C	Schweizer 269/300 (Lycoming)
Schweizer RSG LLC	269C-1	Model 300C	Schweizer 269/300 (Lycoming)
THE ENSTROM HELICOPTER CORPORATION	280		Enstrom F-28/280 (Lycoming)
THE ENSTROM HELICOPTER CORPORATION	280C		Enstrom F-28/280 (Lycoming)

SUBGROUP 2b: SINGLE TURBINE ENGINE HELICOPTER (other than those in Group 1)			
TC Holder	**Model**	**Com. des.**	**AAR-66 type rating endorsement**
THE ENSTROM HELICOPTER CORPORATION	280F		Enstrom F-28/280 (Lycoming)
THE ENSTROM HELICOPTER CORPORATION	280FX		Enstrom F-28/280 (Lycoming)
THE ENSTROM HELICOPTER CORPORATION	F-28A		Enstrom F-28/280 (Lycoming)
THE ENSTROM HELICOPTER CORPORATION	F-28C		Enstrom F-28/280 (Lycoming)
THE ENSTROM HELICOPTER CORPORATION	F-28C-2		Enstrom F-28/280 (Lycoming)
THE ENSTROM HELICOPTER CORPORATION	F-28F		Enstrom F-28/280 (Lycoming)
THE ENSTROM HELICOPTER CORPORATION	F-28F-R		Enstrom F-28/280 (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (OTHER THAN THOSE IN GROUP 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
AD Holdings, Inc	T-211	Metal	Thorp T-211 (Continental)
AD Holdings, Inc	T-211	Metal	Thorp T-211 (Jabiru)
AERO Sp.z.o.o	AT-3 R100	Metal	Aero AT-3 (Rotax)
AEROCLUBUL ROMANIEI	IAR-46	Metal	IAR-46 (Rotax)
AEROCLUBUL ROMANIEI	IAR-46S	Metal	IAR-46 (Rotax)
Aerospool, spol. s r. o.	Club	Composite	Aerospool Club (Rotax)
AEROSTAR AIRCRAFT Corporation	PA-60-601P (Aerostar 601P)	Metal + Pressurised	Piper PA-60/61 Pressurised (Lycoming)
AEROSTAR AIRCRAFT Corporation	PA-60-602P (Aerostar 602P)	Metal + Pressurised	Piper PA-60/61 Pressurised (Lycoming)
AEROSTAR AIRCRAFT Corporation	PA-60-700P (Aerostar 700P)	Metal + Pressurised	Piper PA-60/61 Pressurised (Lycoming)
AEROSTAR AIRCRAFT Corporation	PA-60-600 (Aerostar 600)	Metal	Piper PA-60/61 Series (Lycoming)
AEROSTAR AIRCRAFT Corporation	PA-60-601 (Aerostar 601)	Metal	Piper PA-60/61 Series (Lycoming)
AIR TRACTOR, INC.	AT-250	Metal	Air Tractor AT-250/300 (PW R985)
AIR TRACTOR, INC.	AT-300	Metal	Air Tractor AT-250/300 (PW R985)
AIR TRACTOR, INC.	AT-301	Metal	Air Tractor AT-301/401/501 (PW R1340)
AIR TRACTOR, INC.	AT-401	Metal	Air Tractor AT-301/401/501 (PW R1340)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
AIR TRACTOR, INC.	AT-401B	Metal	Air Tractor AT-301/401/501 (PW R1340)
AIR TRACTOR, INC.	AT-501	Metal	Air Tractor AT-301/401/501 (PW R1340)
AIR TRACTOR, INC.	AT-401A	Metal	Air Tractor AT-401 (PZL-3S)
AIRBUS DEFENCE AND SPACE GmbH	Bölkow 207	Wood	Bölkow BO 207 (Lycoming)
AIRBUS DEFENCE AND SPACE GmbH	Bölkow 207T	Wood	Bölkow BO 207 (Lycoming)
AIRBUS DEFENCE AND SPACE GmbH	Bölkow 208 C Junior	Metal	Bölkow BO 208 (Continental)
AIRBUS DEFENCE AND SPACE GmbH	Bölkow Junior	Metal	Bölkow BO 208 (Continental)
AIRBUS DEFENCE AND SPACE GmbH	Bölkow BO 209 S	Metal	Bölkow BO 209 (Continental)
AIRBUS DEFENCE AND SPACE GmbH	Bölkow BO 209 Monsun	Metal	Bölkow BO 208 (Continental)
AIRBUS DEFENCE AND SPACE GmbH	223 A1	Metal	SIAT 223 (Lycoming)
AIRBUS DEFENCE AND SPACE GmbH	223 K1	Metal	SIAT 223 (Lycoming)
AIRBUS DEFENCE AND SPACE GmbH	223 V	Metal	SIAT 223 (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
AIRCRAFT Design and Certification	D4 Fascination	Composite	(WD) D4 Fascination (Rotax)
AIRCRAFT INDUSTRIES	L-200 A	Metal	Let L 200 (LOM)
AIRCRAFT INDUSTRIES	L-200 D	Metal	Let L 200 (LOM)
AIRCRAFT INDUSTRIES	Z-37-2	Metal tubing Fabric	Let Z-37 Series (LOM)
AIRCRAFT INDUSTRIES	Z-37A	Metal tubing Fabric	Let Z-37 Series (LOM)
AIRCRAFT INDUSTRIES	Z-37A-2	Metal tubing Fabric	Let Z-37 Series (LOM)
ALEXANDRIA Aircraft LLC	17-30	Wood + Metal tubing Fabric	Bellanca 17-30 (Continental)
ALEXANDRIA Aircraft LLC	17-30A	Wood + Metal tubing Fabric	Bellanca 17-30 (Continental)
ALEXANDRIA Aircraft LLC	17-31	Wood + Metal tubing Fabric	Bellanca 17-31 Series (Lycoming)
ALEXANDRIA Aircraft LLC	17-31A	Wood + Metal tubing Fabric	Bellanca 17-31 Series (Lycoming)
ALEXANDRIA Aircraft LLC	17-31ATC	Wood + Metal tubing Fabric	Bellanca 17-31 Series (Lycoming)
ALEXANDRIA Aircraft LLC	17-31TC	Wood + Metal tubing Fabric	Bellanca 17-31 Series (Lycoming)
ALLIED AG CAT Productions	G-164	Metal	Grumman G-164 (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
ALLIED AG CAT Productions	G-164B	Metal	Grumman G-164 (Continental)
ALLIED AG CAT Productions	G-164B with 73' wing gap	Metal	Grumman G-164 (Continental)
ALLIED AG CAT Productions	G-164B-15T	Metal	Grumman G-164 (Continental)
ALLIED AG CAT Productions	G-164B-20T	Metal	Grumman G-164 (Continental)
ALLIED AG CAT Productions	G-164B-34T	Metal	Grumman G-164 (Continental)
ALLIED AG CAT Productions	G-164	Metal	Grumman G-164 (Jacobs)
ALLIED AG CAT Productions	G-164	Metal	Grumman G-164 (PW R Series)
ALLIED AG CAT Productions	G-164A	Metal	Grumman G-164 (PW R Series)
ALLIED AG CAT Productions	G-164B	Metal	Grumman G-164 (PW R Series)
ALLIED AG CAT Productions	G-164B with 73' wing gap	Metal	Grumman G-164 (PW R Series)
ALLIED AG CAT Productions	G-164B-15T	Metal	Grumman G-164 (PW R Series)
ALLIED AG CAT Productions	G-164B-20T	Metal	Grumman G-164 (PW R Series)
ALLIED AG CAT Productions	G-164B-34T	Metal	Grumman G-164 (PW R Series)
ALLIED AG CAT Productions	G-164C	Metal	Grumman G-164 (PW R Series)
ALPHA AVIATION	HR 200-100	Metal	Robin HR 200/ R 2000 series (Lycoming)
ALPHA AVIATION	HR 200-100S	Metal	Robin HR 200/ R 2000 series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
ALPHA AVIATION	HR 200-120	Metal	Robin HR 200/ R 2000 series (Lycoming)
ALPHA AVIATION	HR 200-120 B	Metal	Robin HR 200/ R 2000 series (Lycoming)
ALPHA AVIATION	HR 200-160	Metal	Robin HR 200/ R 2000 series (Lycoming)
ALPHA AVIATION	R 2100	Metal	Robin HR 200/ R 2000 series (Lycoming)
ALPHA AVIATION	R 2100A	Metal	Robin HR 200/ R 2000 series (Lycoming)
ALPHA AVIATION	R 2112	Metal	Robin HR 200/ R 2000 series (Lycoming)
ALPHA AVIATION	R 2120U	Metal	Robin HR 200/ R 2000 series (Lycoming)
ALPHA AVIATION	R 2160	Metal	Robin HR 200/ R 2000 series (Lycoming)
ALPHA AVIATION	R 2160D	Metal	Robin HR 200/ R 2000 series (Lycoming)
ALPHA AVIATION	R 2160i	Metal	Robin HR 200/ R 2000 series (Lycoming)
AMERICAN CHAMPION Aircraft Corp.	7GCAA	Wood + Metal tubing Fabric	Champion 7 (Superior)
AMERICAN CHAMPION Aircraft Corp.	7GCBC (180HP)	Wood + Metal tubing Fabric	Champion 7 (Superior)
AMERICAN CHAMPION Aircraft Corp.	7ECA	Wood + Metal tubing Fabric	Champion 7 (Lycoming)
AMERICAN CHAMPION Aircraft Corp.	7GCAA	Wood + Metal tubing Fabric	Champion 7 (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
AMERICAN CHAMPION Aircraft Corp.	7GCBC (160HP)	Wood + Metal tubing Fabric	Champion 7 (Lycoming)
AMERICAN CHAMPION Aircraft Corp.	8GCBC	Wood + Metal tubing Fabric	Champion 8 Series (Lycoming)
AMERICAN CHAMPION Aircraft Corp.	8KCAB	Wood + Metal tubing Fabric	Champion 8 Series (Lycoming)
AQUILA Aviation by Excellence AG	AQUILA AT01	Composite	Aquila AT01 (Rotax)
AQUILA Aviation by Excellence AG	AQUILA AT01-100	Composite	Aquila AT01 (Rotax)
AUGUSTAIR, INC.	VARGA 2180	Metal	Varga (Lycoming)
AUGUSTAIR, INC.	VARGA 2150A	Metal	Varga (Lycoming)
AUGUSTAIR, INC.	VARGA 2150	Metal	Varga (Lycoming)
AVIAT AIRCRAFT INC	A-1	Metal	Aviat Husky A (Lycoming)
AVIAT AIRCRAFT INC	A-1A	Metal	Aviat Husky A (Lycoming)
AVIAT AIRCRAFT INC	A-1B	Metal	Aviat Husky A (Lycoming)
AVIAT AIRCRAFT INC	A-1C-180	Metal	Aviat Husky A (Lycoming)
AVIAT AIRCRAFT INC	S-1S	Wood + Metal tubing Fabric	Pitts S-1 Series (Lycoming)
AVIAT AIRCRAFT INC	S-2A	Wood + Metal tubing Fabric	Pitts S-2 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
AVIAT AIRCRAFT INC	S-2B	Wood + Metal tubing Fabric	Pitts S-2 Series (Lycoming)
AVIAT AIRCRAFT INC	S-2C	Wood + Metal tubing Fabric	Pitts S-2 Series (Lycoming)
AVIAT AIRCRAFT INC	S-2S	Wood + Metal tubing Fabric	Pitts S-2 Series (Lycoming)
BEECHCRAFT Corporation	19A	Metal	Beech 19 Series (Lycoming)
BEECHCRAFT Corporation	B19	Metal	Beech 19 Series (Lycoming)
BEECHCRAFT Corporation	M19A	Metal	Beech 19 Series (Lycoming)
BEECHCRAFT Corporation	23	Metal	Beech 23 Series (Lycoming)
BEECHCRAFT Corporation	A23-19	Metal	Beech 23 Series (Lycoming)
BEECHCRAFT Corporation	A23-24	Metal	Beech 23 Series (Lycoming)
BEECHCRAFT Corporation	B23	Metal	Beech 23 Series (Lycoming)
BEECHCRAFT Corporation	C23	Metal	Beech 23 Series (Lycoming)
BEECHCRAFT Corporation	A24	Metal	Beech 24 Series (Lycoming)
BEECHCRAFT Corporation	A24R	Metal	Beech 24 Series (Lycoming)
BEECHCRAFT Corporation	B24R	Metal	Beech 24 Series (Lycoming)
BEECHCRAFT Corporation	C24R	Metal	Beech 24 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
BEECHCRAFT Corporation	B50	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	C50	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	D50	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	D50A	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	D50B	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	D50C	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	D50E	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	D50E-5990	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	E50	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	F50	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	G50	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	H50	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	H50	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	J50	Metal	Beech 50 Series (Lycoming)
BEECHCRAFT Corporation	58P	Metal + Pressurised	Beech 58P (Continental)
BEECHCRAFT Corporation	58PA	Metal + Pressurised	Beech 58P (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
BEECHCRAFT Corporation	58TC	Metal	Beech 58TC (Continental)
BEECHCRAFT Corporation	58TCA	Metal	Beech 58TC (Continental)
BEECHCRAFT Corporation	60	Metal	Beech 60 Series (Lycoming)
BEECHCRAFT Corporation	A60	Metal	Beech 60 Series (Lycoming)
BEECHCRAFT Corporation	B60	Metal	Beech 60 Series (Lycoming)
BEECHCRAFT Corporation	76	Metal	Beech 76 (Lycoming)
BEECHCRAFT Corporation	77	Metal	Beech 77 (Lycoming)
BEECHCRAFT Corporation	A23	Metal	Beech A23 (Continental)
BEECHCRAFT Corporation	A23A	Metal	Beech A23 (Continental)
BERIEV	Be 103	Metal	Beriev Be-103 (Continental)
Bernd Hager/Anatoli Stobbe GbR	R 90-230RG	Composite	Ruschmeyer R90-230RG (Lycoming)
BLACKSHAPE S.p.A.	BS 115	Composite	Blackshape (Rotax)
B-N GROUP Ltd. (Britten-Norman)	BN.2A MARK III	Metal	Britten-Norman BN.2A Mark III (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN.2A MARK III-1	Metal	Britten-Norman BN.2A Mark III (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN.2A MARK III-2	Metal	Britten-Norman BN.2A Mark III (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN.2A MARK III-3	Metal	Britten-Norman BN.2A Mark III (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
B-N GROUP Ltd. (Britten-Norman)	BN2	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2A	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2A-20	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2A-21	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2A-26	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2A-27	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2A-3	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2A-6	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2A-7	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2A-8	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2A-9	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2B-20	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2B-21	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2B-26	Metal	Britten-Norman BN2A Series (Lycoming)
B-N GROUP Ltd. (Britten-Norman)	BN2B-27	Metal	Britten-Norman BN2A Series (Lycoming)
Breezer Aircraft GmbH & Co. KG	B600	Metal	Breezer B600 (Rotax)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
CEAPR	CAP10	Wood	CAP 10 (Lycoming)
CEAPR	CAP10B	Wood	CAP 10 (Lycoming)
CEAPR	CAP20	Wood	CAP 20/21 (Lycoming)
CEAPR	CAP20L/S200	Wood	CAP 20/21 (Lycoming)
CEAPR	CAP21	Wood	CAP 20/21 (Lycoming)
CEAPR	CAP231	Wood	CAP 230 Series (Lycoming)
CEAPR	CAP231EX	Composite + Wood	CAP 230 Series (Lycoming)
CEAPR	CAP232	Composite + Wood	CAP 230 Series (Lycoming)
CEAPR	CAP230	Wood	CAP 230 Series (Lycoming)
CEAPR	ATL	Wood + Composite	Robin ATL / ATL S (JPX 4T60)
CEAPR	ATL S	Wood + Composite	Robin ATL / ATL S (JPX 4T60)
CEAPR	ATL L	Wood + Composite	Robin ATL L (Limbach L2000)
CEAPR	DR 200	Wood	Robin DR 200 series (Potez)
CEAPR	DR 220	Wood	Robin DR 220 series (Continental)
CEAPR	DR 220 A	Wood	Robin DR 220 series (Continental)
CEAPR	DR 220 AB	Wood	Robin DR 220 series (Continental)
CEAPR	DR 220 B	Wood	Robin DR 220 series (Continental)
CEAPR	DR 221	Wood	Robin DR 221 series (Lycoming)
CEAPR	DR 221B	Wood	Robin DR 221 series (Lycoming)
CEAPR	DR 250	Wood	Robin DR 250 series (Lycoming)
CEAPR	DR 250 B	Wood	Robin DR 250 series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
CEAPR	DR 250 B-160	Wood	Robin DR 250 series (Lycoming)
CEAPR	DR 253	Wood	Robin DR 253 series (Lycoming)
CEAPR	DR 253 B	Wood	Robin DR 253 series (Lycoming)
CEAPR	DR 300/108	Wood	Robin DR 300 series (Lycoming)
CEAPR	DR 300/120	Wood	Robin DR 300 series (Lycoming)
CEAPR	DR 300/125	Wood	Robin DR 300 series (Lycoming)
CEAPR	DR 300/140	Wood	Robin DR 300 series (Lycoming)
CEAPR	DR 300/180	Wood	Robin DR 300 series (Lycoming)
CEAPR	DR 315	Wood	Robin DR 300 series (Lycoming)
CEAPR	DR 340	Wood	Robin DR 300 series (Lycoming)
CEAPR	DR 360	Wood	Robin DR 300 series (Lycoming)
CEAPR	DR 380	Wood	Robin DR 300 series (Lycoming)
CEAPR	DR 400/125 i	Wood	Robin DR 400 series (Continental)
CEAPR	DR 400/200 I	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/100	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/120	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/120 A	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/120 D	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/125	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/140	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/140 B	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/160	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/160 D	Wood	Robin DR 400 series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
CEAPR	DR 400/180	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/180 R	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/180 S	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/2+2	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/200 R	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/500	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/NGL	Wood	Robin DR 400 series (Lycoming)
CEAPR	DR 400/RP	Wood	Robin DR 400RP (Porsche)
CEAPR	HR 100-210	Metal	Robin HR 100 series (Continental)
CEAPR	HR 100-210 D	Metal	Robin HR 100 series (Continental)
CEAPR	HR 100-285 C	Metal	Robin HR 100 series (Continental)
CEAPR	HR 100-285 TIARA	Metal	Robin HR 100 series (Continental)
CEAPR	HR 100-200	Metal	Robin HR 100 series (Lycoming)
CEAPR	HR 100-200 B	Metal	Robin HR 100 series (Lycoming)
CEAPR	HR 100-250 TR	Metal	Robin HR 100 series (Lycoming)
CEAPR	R 1180 T	Metal	Robin HR 1180 series (Lycoming)
CEAPR	R 1180 TD	Metal	Robin HR 1180 series (Lycoming)
CEAPR	R 3000/100	Metal	Robin R 3000 series (Lycoming)
CEAPR	R 3000/120	Metal	Robin R 3000 series (Lycoming)
CEAPR	R 3000/120 D	Metal	Robin R 3000 series (Lycoming)
CEAPR	R 3000/140	Metal	Robin R 3000 series (Lycoming)
CEAPR	R 3000/160	Metal	Robin R 3000 series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
CEAPR	R 3000/160 S	Metal	Robin R 3000 series (Lycoming)
CEAPR	R 3000/180	Metal	Robin R 3000 series (Lycoming)
CESSNA AIRCRAFT Company	F177RG	Metal	Cessna 177 Series (Lycoming)
CESSNA AIRCRAFT Company	F150F	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
CESSNA AIRCRAFT Company	F150G	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
CESSNA AIRCRAFT Company	F150H	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
CESSNA AIRCRAFT Company	F150J	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
CESSNA AIRCRAFT Company	F150K	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
CESSNA AIRCRAFT Company	F150L	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
CESSNA AIRCRAFT Company	F150M	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
CESSNA AIRCRAFT Company	FA150K	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
CESSNA AIRCRAFT Company	FA150L	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
CESSNA AIRCRAFT Company	FA150M	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
CESSNA AIRCRAFT Company	FRA150M	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
CESSNA AIRCRAFT Company	F152	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	FA152	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	F172D	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	F172E	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	F172F	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	F172G	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	F172H	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	F172K	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	FP172D	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	FR172E	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	FR172F	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
CESSNA AIRCRAFT Company	FR172G	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	FR172H	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	FR172J	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	FR172K	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	F172L	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	F172M	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	F172N	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	F172P	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
CESSNA AIRCRAFT Company	F182P	Metal	Cessna/Reims-Cessna 182/F182 Series (Lycoming)
CESSNA AIRCRAFT Company	F182Q	Metal	Cessna/Reims-Cessna 182/F182 Series (Lycoming)
CESSNA AIRCRAFT Company	FR182	Metal	Cessna/Reims-Cessna 182/F182 Series (Lycoming)
CESSNA AIRCRAFT Company	F337E	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
CESSNA AIRCRAFT Company	F337F	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
CESSNA AIRCRAFT Company	F337G	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
CESSNA AIRCRAFT Company	F337H	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
CESSNA AIRCRAFT Company	FT337E	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
CESSNA AIRCRAFT Company	FT337F	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
CESSNA AIRCRAFT Company	FT337GP	Metal + Pressurised	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
CESSNA AIRCRAFT Company	F337HP	Metal + Pressurised	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
CIRRUS Design Corporation	SR20	Composite	Cirrus SR20 / SR22 / SR22T Series (Continental)
CIRRUS Design Corporation	SR22	Composite	Cirrus SR20 / SR22 / SR22T Series (Continental)
CIRRUS Design Corporation	SR22T	Composite	Cirrus SR20 / SR22 / SR22T Series (Continental)
COMMANDER PREMIER AIRCRAFT CO.	112	Metal	Commander 112 (Lycoming)
COMMANDER PREMIER AIRCRAFT CO.	112B	Metal	Commander 112 (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
COMMANDER PREMIER AIRCRAFT CO.	112TC	Metal	Commander 112 (Lycoming)
COMMANDER PREMIER AIRCRAFT CO.	112TCA	Metal	Commander 112 (Lycoming)
COMMANDER PREMIER AIRCRAFT CO.	114	Metal	Commander 114 (Lycoming)
COMMANDER PREMIER AIRCRAFT CO.	114A	Metal	Commander 114 (Lycoming)
COMMANDER PREMIER AIRCRAFT CO.	114B	Metal	Commander 114 (Lycoming)
COMMANDER PREMIER AIRCRAFT CO.	114TC	Metal	Commander 114 (Lycoming)
CUB CRAFTERS, Inc.	CC19-180	Metal tubing Fabric	Cub Crafters 19-180 (Lycoming)
Czech Sport Aircraft a.s.	PS-28 Cruiser	Metal	Czech Sport PS-28 (Rotax)
DAHER AEROSPACE	MS 880 B	Metal	SOCATA MS 880/885 (Continental)
DAHER AEROSPACE	MS 880 B-D	Metal	SOCATA MS 880/885 (Continental)
DAHER AEROSPACE	MS 885	Metal	SOCATA MS 880/885 (Continental)
DAHER AEROSPACE	MS 881	Metal	SOCATA MS 880/885 (Potez)
DAHER AEROSPACE	MS 884	Metal	SOCATA MS 884/894/PZL Koliber (Franklin)
DAHER AEROSPACE	MS 894 A	Metal	SOCATA MS 884/894/PZL Koliber (Franklin)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
DAHER AEROSPACE	MS 894 C	Metal	SOCATA MS 884/894/PZL Koliber (Franklin)
DAHER AEROSPACE	MS 894 E	Metal	SOCATA MS 884/894/PZL Koliber (Franklin)
DAHER AEROSPACE	MS 890 A	Metal	SOCATA MS 890 (Continental)
DAHER AEROSPACE	MS 890 B	Metal	SOCATA MS 890 (Continental)
DAHER AEROSPACE	MS 883	Metal	SOCATA MS 892/883/886/887 (Lycoming)
DAHER AEROSPACE	MS 886	Metal	SOCATA MS 892/883/886/887 (Lycoming)
DAHER AEROSPACE	MS 887	Metal	SOCATA MS 892/883/886/887 (Lycoming)
DAHER AEROSPACE	MS 892 A.150	Metal	SOCATA MS 892/883/886/887 (Lycoming)
DAHER AEROSPACE	MS 892 B.150	Metal	SOCATA MS 892/883/886/887 (Lycoming)
DAHER AEROSPACE	MS 892 E.150	Metal	SOCATA MS 892/883/886/887 (Lycoming)
DAHER AEROSPACE	MS 893 A	Metal	SOCATA MS 892/883/886/887 (Lycoming)
DAHER AEROSPACE	MS 893 B	Metal	SOCATA MS 892/883/886/887 (Lycoming)
DAHER AEROSPACE	MS 893 E	Metal	SOCATA MS 892/883/886/887 (Lycoming)
DAHER AEROSPACE	MS 893 E-D	Metal	SOCATA MS 892/883/886/887 (Lycoming)
DAHER AEROSPACE	RALLYE 100 S	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 100 S-D	Metal	SOCATA Rallye Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
DAHER AEROSPACE	RALLYE 100 ST	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 100 ST-D	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 150 ST	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 150 SV	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 150 SVS	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 150 T	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 150 T-D	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 180 T	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 180 T-D	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 180 TS	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 235 A	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 235 C	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 235 E	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 235 E-D	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	RALLYE 235 F	Metal	SOCATA Rallye Series (Continental)
DAHER AEROSPACE	TB 10	Metal	SOCATA TB Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
DAHER AEROSPACE	TB 20	Metal	SOCATA TB Series (Lycoming)
DAHER AEROSPACE	TB 200	Metal	SOCATA TB Series (Lycoming)
DAHER AEROSPACE	TB 21	Metal	SOCATA TB Series (Lycoming)
DAHER AEROSPACE	TB 9	Metal	SOCATA TB Series (Lycoming)
DE HAVILLAND Support (Aircraft with SAS)	Beagle series 1.	Metal	Beagle B.121 series 1 (Continental)
DE HAVILLAND Support (Aircraft with SAS)	Beagle series 2/3.	Metal	Beagle B.121 series 2/3 (Lycoming)
DECOURT (Aircraft with SAS)	DMS 884-1	Wood	Decourt DMS 884 (Franklin)
DIAMOND AIRCRAFT Industries	DA 42 M-NG	Composite	Diamond DA42 Series (Austro Engine)
DIAMOND AIRCRAFT Industries	DA 42 NG	Composite	Diamond DA42 Series (Austro Engine)
DIAMOND AIRCRAFT Industries	DA 42	Composite	Diamond DA42 Series (Technify)
DIAMOND AIRCRAFT Industries	DA 42 M	Composite	Diamond DA42 Series (Technify)
DIAMOND AIRCRAFT Industries	DA20-C1	Composite	Diamond DA20 (Continental)
DIAMOND AIRCRAFT Industries	DA20-A1	Composite	Diamond DA20/DV20 (Rotax)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
DIAMOND AIRCRAFT Industries	DV 20	Composite	Diamond DA20/DV20 (Rotax)
DIAMOND AIRCRAFT Industries	DV 20 E	Composite	Diamond DA20/DV20 (Rotax)
DIAMOND AIRCRAFT Industries	DA 40 NG	Composite	Diamond DA40 (Austro Engine)
DIAMOND AIRCRAFT Industries	DA 40	Composite	Diamond DA40 (Lycoming)
DIAMOND AIRCRAFT Industries	DA 40 F	Composite	Diamond DA40 (Lycoming)
DIAMOND AIRCRAFT Industries	DA 40 D	Composite	Diamond DA40D (Technify)
DIAMOND AIRCRAFT Industries	DA 62	Composite	Diamond DA62 (Austro Engine)
DYNAC AEROSPACE Corporation	Aero Commander 100	Metal	Aerocommander 100 (Lycoming)
E.I.S Aircraft GmbH	RS 180	Wood + Composite	RS 180 (Lycoming)
E.I.S. HOLDING GmbH	RS 180	Wood + Composite	Sportavia Putzer RS180 (Lycoming)
EADS PZL 'WARSZAWA-OKECIE' (Aircraft with SAS)	PZL-106 series	Metal	PZL-106 Series (PZL)
EVEKTOR	EV-97 VLA	Metal	Evektor EV-97 (Rotax)
EVEKTOR	SportStar RTC	Metal	SportStar RTC (Rotax)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
EXTRA Flugzeugproduktion-sund Vertriebs-GmbH	EA 300	Composite	Extra EA-300 Series (Lycoming)
EXTRA Flugzeugproduktion-sund Vertriebs-GmbH	EA 300/200	Composite	Extra EA-300 Series (Lycoming)
EXTRA Flugzeugproduktion-sund Vertriebs-GmbH	EA 300/L	Composite	Extra EA-300 Series (Lycoming)
EXTRA Flugzeugproduktion-sund Vertriebs-GmbH	EA 300/LC	Composite	Extra EA-300 Series (Lycoming)
EXTRA Flugzeugproduktion-sund Vertriebs-GmbH	EA 300/LT	Composite	Extra EA-300 Series (Lycoming)
EXTRA Flugzeugproduktion-sund Vertriebs-GmbH	EA 300/S	Composite	Extra EA-300 Series (Lycoming)
EXTRA Flugzeugproduktion-sund Vertriebs-GmbH	EA 300/SC	Composite	Extra EA-300 Series (Lycoming)
FFT GYROFLUG (Aircraft with SAS)	SC01 Series	Composite	SC01 Series (Lycoming)
Flight Design GmbH	CTLS-ELA	Composite	CTLS-ELA (Rotax)
FLS AEROSPACE (Aircraft with SAS)	Club Sprint Sprint 160	Metal	Club Sprint/Sprint 160 (Lycoming)
FLS AEROSPACE (Aircraft with SAS)	OA7 Series	Metal	OA7 Optica Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
FUJI Heavy Industries	FA-200-160	Metal	Fuji FA-200 Series (Lycoming)
FUJI Heavy Industries	FA-200-180	Metal	Fuji FA-200 Series (Lycoming)
FUJI Heavy Industries	FA-200-180AO	Metal	Fuji FA-200 Series (Lycoming)
GA8 Airvan Pty Ltd	GA8	Metal	Gippsland GA8 (Lycoming)
GA8 Airvan Pty Ltd	GA8-TC 320	Metal	Gippsland GA8 (Lycoming)
Game Composite LLC	GB1 GameBird	Composite	GameBird1 (Lycoming)
GARDAN (Aircraft with SAS)	GY80 Series	Metal	Gardan GY 80 (Lycoming)
GENERAL AVIA Costruzioni Aeronautiche (Aircraft with SAS)	F.20 Pegaso	Metal	General Avia F.20 Series (Continental)
GENERAL AVIA Costruzioni Aeronautiche (Aircraft with SAS)	F.22 series	Metal	General Avia F.22 (Lycoming)
GOMOLZIG FLUGZEUG- UND MASCHINENBAU GmbH	AS202/15	Metal	AS202 Series (Lycoming)
GOMOLZIG FLUGZEUG- UND MASCHINENBAU GmbH	AS202/15-1	Metal	AS202 Series (Lycoming)
GOMOLZIG FLUGZEUG- UND MASCHINENBAU GmbH	AS202/18A	Metal	AS202 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
GOMOLZIG FLUGZEUG- UND MASCHINENBAU GmbH	AS202/18A1	Metal	AS202 Series (Lycoming)
GOMOLZIG FLUGZEUG- UND MASCHINENBAU GmbH	AS202/18A2	Metal	AS202 Series (Lycoming)
GOMOLZIG FLUGZEUG- UND MASCHINENBAU GmbH	AS202/18A3	Metal	AS202 Series (Lycoming)
GOMOLZIG FLUGZEUG- UND MASCHINENBAU GmbH	AS202/18A4	Metal	AS202 Series (Lycoming)
GROB Aircraft AG	G 115	Composite	Grob G115/120 Series (Lycoming)
GROB Aircraft AG	G 115A	Composite	Grob G115/120 Series (Lycoming)
GROB Aircraft AG	G 115B	Composite	Grob G115/120 Series (Lycoming)
GROB Aircraft AG	G 115C	Composite	Grob G115/120 Series (Lycoming)
GROB Aircraft AG	G 115C2	Composite	Grob G115/120 Series (Lycoming)
GROB Aircraft AG	G 115D	Composite	Grob G115/120 Series (Lycoming)
GROB Aircraft AG	G 115D2	Composite	Grob G115/120 Series (Lycoming)
GROB Aircraft AG	G 115E	Composite	Grob G115/120 Series (Lycoming)
GROB Aircraft AG	G 115EG	Composite	Grob G115/120 Series (Lycoming)
GROB Aircraft AG	G 115TA	Composite	Grob G115/120 Series (Lycoming)
GROB Aircraft AG	G 120A	Composite	Grob G115/120 Series (Lycoming)
GROB Aircraft AG	G 120A-I	Composite	Grob G115/120 Series (Lycoming)
Hoffmann GmbH & Co. KG	H 40	Composite	H 40 (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
INSTYTUT LOTNICTWA	I-23 'Manager'	Composite	Instytut Lotnictwa I-23 Manager (Lycoming)
INTERCEPTOR AIRCRAFT Corporation	200D	Metal	Aerocommander 200 (Continental)
ISSOIRE AVIATION	APM 20	Composite	Issoire APM 20/30 (Rotax)
ISSOIRE AVIATION	APM 30	Composite	Issoire APM 20/30 (Rotax)
ISSOIRE AVIATION	APM 40	Composite	Issoire APM 40 (Continental)
LAVIA ARGENTINA S.A. (LAVIASA)	PA-25	Metal	Piper PA-25 Series (Lycoming)
LAVIA ARGENTINA S.A. (LAVIASA)	PA-25-235	Metal	Piper PA-25 Series (Lycoming)
LAVIA ARGENTINA S.A. (LAVIASA)	PA-25-260	Metal	Piper PA-25 Series (Lycoming)
LEONARDO S.p.A.	F260	Metal	Aermacchi F260 Series (Lycoming)
LEONARDO S.p.A.	F260B	Metal	Aermacchi F260 Series (Lycoming)
LEONARDO S.p.A.	F260C	Metal	Aermacchi F260 Series (Lycoming)
LEONARDO S.p.A.	F260D	Metal	Aermacchi F260 Series (Lycoming)
LEONARDO S.p.A.	F260E	Metal	Aermacchi F260 Series (Lycoming)
LEONARDO S.p.A.	F260F	Metal	Aermacchi F260 Series (Lycoming)
LEONARDO S.p.A.	S205-22/R	Metal	SIAI-Marchetti S.205 (Franklin)
LEONARDO S.p.A.	S205-18/F	Metal	SIAI-Marchetti S.205/S.208 (Lycoming)
LEONARDO S.p.A.	S205-18/R	Metal	SIAI-Marchetti S.205/S.208 (Lycoming)
LEONARDO S.p.A.	S205-20/F	Metal	SIAI-Marchetti S.205/S.208 (Lycoming)
LEONARDO S.p.A.	S205-20/R	Metal	SIAI-Marchetti S.205/S.208 (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
LEONARDO S.p.A.	S208	Metal	SIAI-Marchetti S.205/S.208 (Lycoming)
LEONARDO S.p.A.	S208A	Metal	SIAI-Marchetti S.205/S.208 (Lycoming)
LIBERTY AEROSPACE Incorporated	XL-2	Composite	Liberty XL-2 (Continental)
Light Wing AG	LightWing AC4	Metal tubing Fabric	Lightwing AC4 (Rotax)
Magnaghi Aeronautica S.p.A. (INIZIATIVE INDUSTRIALI ITALIANE)	Sky Arrow 650 TC	Composite	III Sky Arrow 650/710 (Rotax)
Magnaghi Aeronautica S.p.A. (INIZIATIVE INDUSTRIALI ITALIANE)	Sky Arrow 650 TCN	Composite	III Sky Arrow 650/710 (Rotax)
Magnaghi Aeronautica S.p.A. (INIZIATIVE INDUSTRIALI ITALIANE)	Sky Arrow 650 TCNS	Composite	III Sky Arrow 650/710 (Rotax)
Magnaghi Aeronautica S.p.A. (INIZIATIVE INDUSTRIALI ITALIANE)	Sky Arrow 650 TCS	Composite	III Sky Arrow 650/710 (Rotax)
Magnaghi Aeronautica S.p.A. (INIZIATIVE INDUSTRIALI ITALIANE)	Sky Arrow 710 RG	Composite	III Sky Arrow 650/710 (Rotax)
MAULE AEROSPACE TECHNOLOGY	Bee Dee M-4	Metal tubing Fabric	Maule M4 (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
MAULE AEROSPACE TECHNOLOGY	M-4	Metal tubing Fabric	Maule M4 (Continental)
MAULE AEROSPACE TECHNOLOGY	M-4-210	Metal tubing Fabric	Maule M4 (Continental)
MAULE AEROSPACE TECHNOLOGY	M-4-210C	Metal tubing Fabric	Maule M4 (Continental)
MAULE AEROSPACE TECHNOLOGY	M-4C	Metal tubing Fabric	Maule M4 (Continental)
MAULE AEROSPACE TECHNOLOGY	M-4S	Metal tubing Fabric	Maule M4 (Continental)
MAULE AEROSPACE TECHNOLOGY	M-4T	Metal tubing Fabric	Maule M4 (Continental)
MAULE AEROSPACE TECHNOLOGY	M-4-220	Metal tubing Fabric	Maule M4 (Franklin)
MAULE AEROSPACE TECHNOLOGY	M-4-220C	Metal tubing Fabric	Maule M4 (Franklin)
MAULE AEROSPACE TECHNOLOGY	M-4-220S	Metal tubing Fabric	Maule M4 (Franklin)
MAULE AEROSPACE TECHNOLOGY	M-4-180V	Metal tubing Fabric	Maule M4 (Lycoming)
MAULE AEROSPACE TECHNOLOGY	M-5-180C	Metal tubing Fabric	Maule M5 (Lycoming)
MAULE AEROSPACE TECHNOLOGY	M-5-210C	Metal tubing Fabric	Maule M5 (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
MAULE AEROSPACE TECHNOLOGY	M-5-235C	Metal tubing Fabric	Maule M5 (Lycoming)
MAULE AEROSPACE TECHNOLOGY	M-6-235	Metal tubing Fabric	Maule M6 (Lycoming)
MAULE AEROSPACE TECHNOLOGY	M-7-235	Metal tubing Fabric	Maule M7 Series (Lycoming)
MAULE AEROSPACE TECHNOLOGY	M-7-235B	Metal tubing Fabric	Maule M7 Series (Lycoming)
MAULE AEROSPACE TECHNOLOGY	MT-7-235	Metal tubing Fabric	Maule M7 Series (Lycoming)
MAULE AEROSPACE TECHNOLOGY	MT-7-235C	Metal tubing Fabric	Maule M7 Series (Lycoming)
MAULE AEROSPACE TECHNOLOGY	MX-7-160	Metal + Metal tubing Fabric	Maule MX-7 (Lycoming)
MAULE AEROSPACE TECHNOLOGY	MX-7-180	Metal + Metal tubing Fabric	Maule MX-7 (Lycoming)
MAULE AEROSPACE TECHNOLOGY	MX-7-180A	Metal + Metal tubing Fabric	Maule MX-7 (Lycoming)
MAULE AEROSPACE TECHNOLOGY	MX-7-180B	Metal + Metal tubing Fabric	Maule MX-7 (Lycoming)
MAULE AEROSPACE TECHNOLOGY	MX-7-180C	Metal + Metal tubing Fabric	Maule MX-7 (Lycoming)
MAULE AEROSPACE TECHNOLOGY	MX-7-235	Metal + Metal tubing Fabric	Maule MX-7 (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
MAULE AEROSPACE TECHNOLOGY	MXT-7-160	Metal + Metal tubing Fabric	Maule MX-7 (Lycoming)
MAULE AEROSPACE TECHNOLOGY	MXT-7-180	Metal + Metal tubing Fabric	Maule MX-7 (Lycoming)
MAULE AEROSPACE TECHNOLOGY	MXT-7-180A	Metal + Metal tubing Fabric	Maule MX-7 (Lycoming)
MOONEY AIRPLANE Company	M20K	Metal	Mooney M20 (Continental)
MOONEY AIRPLANE Company	M20R	Metal	Mooney M20 (Continental)
MOONEY AIRPLANE Company	M20S	Metal	Mooney M20 (Continental)
MOONEY AIRPLANE Company	M20	Metal + Wood	Mooney M20/M20A (Lycoming)
MOONEY AIRPLANE Company	M20A	Metal + Wood	Mooney M20/M20A (Lycoming)
MOONEY AIRPLANE Company	M20B	Metal	Mooney M20B to M20S/M22 (Lycoming)
MOONEY AIRPLANE Company	M20C	Metal	Mooney M20B to M20S/M22 (Lycoming)
MOONEY AIRPLANE Company	M20D	Metal	Mooney M20B to M20S/M22 (Lycoming)
MOONEY AIRPLANE Company	M20E	Metal	Mooney M20B to M20S/M22 (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
MOONEY AIRPLANE Company	M20F	Metal	Mooney M20B to M20S/M22 (Lycoming)
MOONEY AIRPLANE Company	M20G	Metal	Mooney M20B to M20S/M22 (Lycoming)
MOONEY AIRPLANE Company	M20J	Metal	Mooney M20B to M20S/M22 (Lycoming)
MOONEY AIRPLANE Company	M20M	Metal	Mooney M20B to M20S/M22 (Lycoming)
MOONEY AIRPLANE Company	M22	Metal	Mooney M20B to M20S/M22 (Lycoming)
MOONEY AIRPLANE Company	M20L	Metal	Mooney M20L (Porsche)
OMA SUD SPA Sky Technologies	SKYCAR	Metal	SKYCAR (Lycoming)
PIAGGIO Aero Industries	P.166	Metal	Piaggio P166 (Lycoming)
PIAGGIO Aero Industries	P.166 B	Metal	Piaggio P166 (Lycoming)
PIAGGIO Aero Industries	P.166 C	Metal	Piaggio P166 (Lycoming)
PIAGGIO Aero Industries	P.166 DL3	Metal	Piaggio P166 (Lycoming)
PIAGGIO Aero Industries	P.166 S	Metal	Piaggio P166 (Lycoming)
PILATUS AIRCRAFT	PC-6	Metal	Pilatus PC-6 Series (Lycoming)
PILATUS AIRCRAFT	PC-6/350	Metal	Pilatus PC-6 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
PILATUS AIRCRAFT	PC-6/350-H1	Metal	Pilatus PC-6 Series (Lycoming)
PILATUS AIRCRAFT	PC-6/350-H2	Metal	Pilatus PC-6 Series (Lycoming)
PILATUS AIRCRAFT	PC-6-H1	Metal	Pilatus PC-6 Series (Lycoming)
PILATUS AIRCRAFT	PC-6-H2	Metal	Pilatus PC-6 Series (Lycoming)
PIPER AIRCRAFT	PA-23-235	Metal	Piper PA-23 Aztec (Lycoming)
PIPER AIRCRAFT	PA-23-250	Metal	Piper PA-23 Aztec (Lycoming)
PIPER AIRCRAFT	PA-E23-250	Metal	Piper PA-23 Aztec (Lycoming)
PIPER AIRCRAFT	PA-24	Metal	Piper PA-24 Series (Lycoming)
PIPER AIRCRAFT	PA-24-250	Metal	Piper PA-24 Series (Lycoming)
PIPER AIRCRAFT	PA-24-260	Metal	Piper PA-24 Series (Lycoming)
PIPER AIRCRAFT	PA-24-400	Metal	Piper PA-24 Series (Lycoming)
PIPER AIRCRAFT	PA-28-201T (Turbo Dakota)	Metal	Piper PA-28 Series (Continental)
PIPER AIRCRAFT	PA-28R-201T (Turbo Arrow III)	Metal	Piper PA-28 Series (Continental)
PIPER AIRCRAFT	PA-28RT-201T (Turbo Arrow IV)	Metal	Piper PA-28 Series (Continental)
PIPER AIRCRAFT	PA-28-140 (Cherokee Cruiser)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28-150 (Cherokee)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28-151 (Cherokee Warrior)	Metal	Piper PA-28 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
PIPER AIRCRAFT	PA-28-160 (Cherokee)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28-161	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28-161 (Warrior II)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28-161 (Warrior III)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28-180 (Cherokee)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28-181 (Archer II)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28-181 (Archer III)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28-235 (Cher. Pathfinder)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28-236 (Dakota)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28R-180 (Arrow)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28R-200 (Arrow II)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28R-201 (Arrow III)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28RT-201 (Arrow IV)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28S-160 (Cherokee)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-28S-180 (Cherokee)	Metal	Piper PA-28 Series (Lycoming)
PIPER AIRCRAFT	PA-30	Metal	Piper PA-30 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
PIPER AIRCRAFT	PA-31	Metal	Piper PA-30 Series (Lycoming)
PIPER AIRCRAFT	PA-31-300	Metal	Piper PA-30 Series (Lycoming)
PIPER AIRCRAFT	PA-31-325	Metal	Piper PA-30 Series (Lycoming)
PIPER AIRCRAFT	PA-31-350 (Chieftain)	Metal	Piper PA-30 Series (Lycoming)
PIPER AIRCRAFT	PA-31P (Pressurized Navajo)	Metal + Pressurised	Piper PA-31P (Lycoming)
PIPER AIRCRAFT	PA-31P-350 (Mojave)	Metal + Pressurised	Piper PA-31P (Lycoming)
PIPER AIRCRAFT	PA-32-260 (Cherokee Six 260)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-32-300 (Cherokee Six 300)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-32-301 (Saratoga)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-32-301FT (Piper 6X)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-32-301T (Turbo Saratoga)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-32-301XTC (Piper 6XT)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-32R-301 (Saratoga II HP)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-32R-301 (Saratoga SP)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-32-301T (Saratoga II TC)	Metal	Piper PA-32 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
PIPER AIRCRAFT	PA-32R-301T (Turbo SaratogaSP)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-32RT-300 (Lance II)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-32RT-300T (Turbo Lance II)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-32S-300 (Cher.Six Seaplane)	Metal	Piper PA-32 Series (Lycoming)
PIPER AIRCRAFT	PA-34-200T (Seneca II)	Metal	Piper PA-34 Series (Continental)
PIPER AIRCRAFT	PA-34-220T (Seneca III)	Metal	Piper PA-34 Series (Continental)
PIPER AIRCRAFT	PA-34-220T (Seneca IV)	Metal	Piper PA-34 Series (Continental)
PIPER AIRCRAFT	PA-34-220T (Seneca V)	Metal	Piper PA-34 Series (Continental)
PIPER AIRCRAFT	PA-34-200 (Seneca)	Metal	Piper PA-34 Series (Lycoming)
PIPER AIRCRAFT	PA-36-285 (Normal category)	Metal	Piper PA-36 Series (Continental)
PIPER AIRCRAFT	PA-36-300 (Normal category)	Metal	Piper PA-36 Series (Lycoming)
PIPER AIRCRAFT	PA-36-375 (Normal category)	Metal	Piper PA-36 Series (Lycoming)
PIPER AIRCRAFT	PA-38-112	Metal	Piper PA-38 Series (Lycoming)
PIPER AIRCRAFT	PA-39	Metal	Piper PA-39/40 Series (Lycoming)
PIPER AIRCRAFT	PA-40	Metal	Piper PA-39/40 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
PIPER AIRCRAFT	PA-44-180 (Seminole)	Metal	Piper PA-44 Series (Lycoming)
PIPER AIRCRAFT	PA-44-180T (Turbo Seminole)	Metal	Piper PA-44 Series (Lycoming)
PIPER AIRCRAFT	PA-46-310P	Metal + Pressurised	Piper PA-46 Pressurised (Continental)
PIPER AIRCRAFT	PA-46-350P (Mirage)	Metal + Pressurised	Piper PA-46 Pressurised (Lycoming)
PIPER AIRCRAFT	PA-46R-350T (Matrix)	Metal	Piper PA-46 Series (Lycoming)
Pipistrel Vertical Solutions d.o.o.	Virus SW 121	Composite	Pipistrel Virus (Rotax)
Polskie Zakłady Lotnicze Sp. z o.o.	PZL M18	Metal	PZL M 18 (PZL)
Polskie Zakłady Lotnicze Sp. z o.o.	PZL M18A	Metal	PZL M 18 (PZL)
Polskie Zakłady Lotnicze Sp. z o.o.	PZL M18AS	Metal	PZL M 18 (PZL)
Polskie Zakłady Lotnicze Sp. z o.o.	PZL M18B	Metal	PZL M 18 (PZL)
Polskie Zakłady Lotnicze Sp. z o.o.	PZL M18BS	Metal	PZL M 18 (PZL)
Polskie Zakłady Lotnicze Sp. z o.o.	PZL M26 01	Metal	PZL M 18 (Lycoming)
Polskie Zakłady Lotnicze Sp. z o.o.	PZL M20	Metal	PZL M 20 (PZL)
PZL WARSZAWAOKE-CIE S.A.	PZL-104M Wilga 2000	Metal	PZL-104 Wilga (Lycoming)
PZL WARSZAWAOKE-CIE S.A.	PZL-104MA Wilga 2000	Metal	PZL-104 Wilga (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
PZL WARSZAWAOKE-CIE S.A.	PZL-104MF Wilga 2000	Metal	PZL-104 Wilga (Lycoming)
PZL WARSZAWAOKE-CIE S.A.	PZL-104MN Wilga 2000	Metal	PZL-104 Wilga (Lycoming)
PZL WARSZAWAOKE-CIE S.A.	PZL-104 Wilga 32	Metal	PZL-104 Wilga Series (Continental)
PZL WARSZAWAOKE-CIE S.A.	PZL-104 Wilga 32A	Metal	PZL-104 Wilga Series (Continental)
PZL WARSZAWAOKE-CIE S.A.	PZL-104 Wilga 35	Metal	PZL-104A Wilga (Ivchenko)
PZL WARSZAWAOKE-CIE S.A.	PZL-104 Wilga 35A	Metal	PZL-104A Wilga (Ivchenko)
PZL WARSZAWAOKE-CIE S.A.	PZL-104 Wilga 80	Metal	PZL-104A Wilga (Ivchenko)
PZL WARSZAWAOKE-CIE S.A.	PZL-110 KOLIBER	Metal	PZL-110 Koliber (Franklin)
PZL WARSZAWAOKE-CIE S.A.	PZL-KOLIBER 150	Metal	PZL-Koliber 150 Series (Lycoming)
PZL WARSZAWAOKE-CIE S.A.	PZL-KOLIBER 150A	Metal	PZL-Koliber 150 Series (Lycoming)
PZL WARSZAWAOKE-CIE S.A.	PZL-KOLIBER 160A	Metal	PZL-Koliber 160 (Lycoming)
Reims Aviation (Aircraft with SAS)	FTB337G	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
Reims Aviation (Aircraft with SAS)	FTB337GA	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
REVO, Inc	LA-4A	Metal	REVO C/LA-4 Series (Lycoming)
REVO, Inc	LA-4P	Metal	REVO C/LA-4 Series (Lycoming)
REVO, Inc	Lake 250	Metal	REVO C/LA-4 Series (Lycoming)
REVO, Inc.	LA-4-200	Metal	Lake C/LA Series (Lycoming)
RUAG AEROSPACE Services GmbH	Do 28 A-1	Metal	Do 28 Series (Lycoming)
RUAG AEROSPACE Services GmbH	Do 28 A-1[R]	Metal	Do 28 Series (Lycoming)
RUAG AEROSPACE Services GmbH	Do 28 B-1	Metal	Do 28 Series (Lycoming)
RUAG AEROSPACE Services GmbH	Do 28 D	Metal	Do 28 Series (Lycoming)
RUAG AEROSPACE Services GmbH	Do 28 D-1	Metal	Do 28 Series (Lycoming)
RUAG AEROSPACE Services GmbH	Do 28 D-2	Metal	Do 28 Series (Lycoming)
SCHEIBE Flugzeugbau	SF 23 A	Wood + Metal tubing Fabric	SF 23 Series (Continental)
SCHEIBE Flugzeugbau	SF 23 A1	Wood + Metal tubing Fabric	SF 23 Series (Continental)
SCHEIBE Flugzeugbau	SF 23 B	Wood + Metal tubing Fabric	SF 23 Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
SCHEIBE Flugzeugbau (Aircraft with SAS)	SF 23 C	Wood + Metal tubing Fabric	SF 23 Series (Lycoming)
SEASTAR CORP	TSC-1A	Composite	TSC Series (Lycoming)
SEASTAR CORP	TSC-1A1	Composite	TSC Series (Lycoming)
SEASTAR CORP	TSC-1A2	Composite	TSC Series (Lycoming)
Skyfox Aviation Ltd	CA25	Wood + Metal tubing Fabric	CA25 Series (Rotax)
Skyfox Aviation Ltd	CA25N	Wood + Metal tubing Fabric	CA25 Series (Rotax)
SLINGSBY Aviation	T67A	Wood	Slingsby T67A (Lycoming)
SLINGSBY Aviation	T67B Firefly	Composite	Slingsby T67B/T67C/T67M Series (Lycoming)
SLINGSBY Aviation	T67C Firefly	Composite	Slingsby T67B/T67C/T67M Series (Lycoming)
SLINGSBY Aviation	T67M Firefly	Composite	Slingsby T67B/T67C/T67M Series (Lycoming)
SLINGSBY Aviation	T67M200 Firefly	Composite	Slingsby T67B/T67C/T67M Series (Lycoming)
SLINGSBY Aviation	T67M260 Firefly	Composite	Slingsby T67B/T67C/T67M Series (Lycoming)
SLINGSBY Aviation	T67M260-T3A Firefly	Composite	Slingsby T67B/T67C/T67M Series (Lycoming)
SLINGSBY Aviation	T67M-MKII Firefly	Composite	Slingsby T67B/T67C/T67M Series (Lycoming)
SOCATA(Aircraft with SAS)	RALLYE 235 CA	Metal	SOCATA Rallye Series (Lycoming)
SOCATA(Aircraft with SAS)	RALLYE 235 CA-M	Metal	SOCATA Rallye Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
SOCATA (Aircraft with SAS)	ST10	Metal	SOCATA ST10 (Lycoming)
SONACA AIRCRAFT S.A.	S200	Metal	SONACA 200 (Rotax)
SONACA AIRCRAFT S.A.	S201	Metal	SONACA 200 (Rotax)
SST FLUGTECHNIK GmbH	EA 400	Composite	Extra EA-400 (Continental)
STEMME AG	S15-1	Composite	Stemme ASP S15-1 (Rotax)
SUKHOI (Aircraft with SAS)	Su-29	Composite	Sukhoi SU-29 (Vedeneyev)
SUKHOI (Aircraft with SAS)	Su-31	Composite	Sukhoi SU-31 (Vedeneyev)
SYMPHONY AIRCRAFT INDUSTRIES	OMF-100-160	Metal	Symphony OMF-100-160 (Lycoming)
TAYLORCRAFT 2000	19	Wood + Metal tubing Fabric	Taylorcraft 19 Series (Continental)
TAYLORCRAFT 2000	F19	Wood + Metal tubing Fabric	Taylorcraft 19 Series (Continental)
TAYLORCRAFT 2000	F21	Wood + Metal tubing Fabric	Taylorcraft F21/F22 Series (Lycoming)
TAYLORCRAFT 2000	F21A	Wood + Metal tubing Fabric	Taylorcraft F21/F22 Series (Lycoming)
TAYLORCRAFT 2000	F21B	Wood + Metal tubing Fabric	Taylorcraft F21/F22 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TAYLORCRAFT 2000	F22	Wood + Metal tubing Fabric	Taylorcraft F21/F22 Series (Lycoming)
TAYLORCRAFT 2000	F22A	Wood + Metal tubing Fabric	Taylorcraft F21/F22 Series (Lycoming)
TAYLORCRAFT 2000	F22B	Wood + Metal tubing Fabric	Taylorcraft F21/F22 Series (Lycoming)
TAYLORCRAFT 2000	F22C	Wood + Metal tubing Fabric	Taylorcraft F21/F22 Series (Lycoming)
TECNAM Costruzioni Aeronautiche	P2006T	Metal	Tecnam P2006T (Rotax)
TECNAM Costruzioni Aeronautiche	P92-JS	Metal	Tecnam P92 (Rotax)
TECNAM Costruzioni Aeronautiche	P2002-JF	Metal	Tecnam P2002 (Rotax)
TECNAM Costruzioni Aeronautiche	P2002-JR	Metal	Tecnam P2002 (Rotax)
TECNAM Costruzioni Aeronautiche	P2008 JC	Composite + Metal	Tecnam P2008 (Rotax)
TECNAM Costruzioni Aeronautiche	P2010	Composite + Metal	Tecnam P2010 (Lycoming)
TECNAM Costruzioni Aeronautiche	P2012 Traveller	Metal	Tecnam P2012 (Lycoming)
TECNAM Costruzioni Aeronautiche	P92-J	Metal	Tecnam P92 (Rotax)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	E33	Metal	Beech 33 Series (Continental)
TEXTRON AVIATION Inc.	E33A	Metal	Beech 33 Series (Continental)
TEXTRON AVIATION Inc.	E33C	Metal	Beech 33 Series (Continental)
TEXTRON AVIATION Inc.	F33	Metal	Beech 33 Series (Continental)
TEXTRON AVIATION Inc.	F33A	Metal	Beech 33 Series (Continental)
TEXTRON AVIATION Inc.	F33C	Metal	Beech 33 Series (Continental)
TEXTRON AVIATION Inc.	G33	Metal	Beech 33 Series (Continental)
TEXTRON AVIATION Inc.	35-33	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	35-A33	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	35-B33	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	35-C33	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	35-C33A	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	H35	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	J35	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	K35	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	M35	Metal	Beech 35 Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	N35	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	P35	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	S35	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	V35	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	V35A	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	V35B	Metal	Beech 35 Series (Continental)
TEXTRON AVIATION Inc.	36	Metal	Beech 36 Series (Continental)
TEXTRON AVIATION Inc.	A36	Metal	Beech 36 Series (Continental)
TEXTRON AVIATION Inc.	A36TC	Metal	Beech 36 Series (Continental)
TEXTRON AVIATION Inc.	B36TC	Metal	Beech 36 Series (Continental)
TEXTRON AVIATION Inc.	G36	Metal	Beech 36 Series (Continental)
TEXTRON AVIATION Inc.	D55	Metal	Beech 55 Series (Continental)
TEXTRON AVIATION Inc.	D55A	Metal	Beech 55 Series (Continental)
TEXTRON AVIATION Inc.	E55	Metal	Beech 55 Series (Continental)
TEXTRON AVIATION Inc.	E55A	Metal	Beech 55 Series (Continental)
TEXTRON AVIATION Inc.	56TC	Metal	Beech 56 Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	A56TC	Metal	Beech 56 Series (Lycoming)
TEXTRON AVIATION Inc.	58	Metal	Beech 58 Series (Continental)
TEXTRON AVIATION Inc.	58A	Metal	Beech 58 Series (Continental)
TEXTRON AVIATION Inc.	G58	Metal	Beech 58 Series (Continental)
TEXTRON AVIATION Inc.	65	Metal	Beech 65-80 Series (Lycoming)
TEXTRON AVIATION Inc.	70	Metal	Beech 65-80 Series (Lycoming)
TEXTRON AVIATION Inc.	65-80	Metal	Beech 65-80 Series (Lycoming)
TEXTRON AVIATION Inc.	65-88	Metal	Beech 65-80 Series (Lycoming)
TEXTRON AVIATION Inc.	65-A80	Metal	Beech 65-80 Series (Lycoming)
TEXTRON AVIATION Inc.	65-A80-8800	Metal	Beech 65-80 Series (Lycoming)
TEXTRON AVIATION Inc.	65-B80	Metal	Beech 65-80 Series (Lycoming)
TEXTRON AVIATION Inc.	A65	Metal	Beech 65-80 Series (Lycoming)
TEXTRON AVIATION Inc.	A65-8200	Metal	Beech 65-80 Series (Lycoming)
TEXTRON AVIATION Inc.	95-B55	Metal	Beech 95 Series (Continental)
TEXTRON AVIATION Inc.	95-B55A	Metal	Beech 95 Series (Continental)
TEXTRON AVIATION Inc.	95-B55B	Metal	Beech 95 Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	95-C55	Metal	Beech 95 Series (Continental)
TEXTRON AVIATION Inc.	95-C55A	Metal	Beech 95 Series (Continental)
TEXTRON AVIATION Inc.	95	Metal	Beech 95 Series (Lycoming)
TEXTRON AVIATION Inc.	95-55	Metal	Beech 95 Series (Lycoming)
TEXTRON AVIATION Inc.	95-A55	Metal	Beech 95 Series (Lycoming)
TEXTRON AVIATION Inc.	B95	Metal	Beech 95 Series (Lycoming)
TEXTRON AVIATION Inc.	B95A	Metal	Beech 95 Series (Lycoming)
TEXTRON AVIATION Inc.	D95A	Metal	Beech 95 Series (Lycoming)
TEXTRON AVIATION Inc.	E95	Metal	Beech 95 Series (Lycoming)
TEXTRON AVIATION Inc.	175	Metal	Cessna 175 Series (Continental)
TEXTRON AVIATION Inc.	175A	Metal	Cessna 175 Series (Continental)
TEXTRON AVIATION Inc.	175B	Metal	Cessna 175 Series (Continental)
TEXTRON AVIATION Inc.	175C	Metal	Cessna 175 Series (Continental)
TEXTRON AVIATION Inc.	177	Metal	Cessna 177 Series (Continental)
TEXTRON AVIATION Inc.	177A	Metal	Cessna 177 Series (Continental)
TEXTRON AVIATION Inc.	177B	Metal	Cessna 177 Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	177RG	Metal	Cessna 177 Series (Continental)
TEXTRON AVIATION Inc.	180	Metal	Cessna 180 Series (Continental)
TEXTRON AVIATION Inc.	180A	Metal	Cessna 180 Series (Continental)
TEXTRON AVIATION Inc.	180B	Metal	Cessna 180 Series (Continental)
TEXTRON AVIATION Inc.	180C	Metal	Cessna 180 Series (Continental)
TEXTRON AVIATION Inc.	180D	Metal	Cessna 180 Series (Continental)
TEXTRON AVIATION Inc.	180E	Metal	Cessna 180 Series (Continental)
TEXTRON AVIATION Inc.	180F	Metal	Cessna 180 Series (Continental)
TEXTRON AVIATION Inc.	180G	Metal	Cessna 180 Series (Continental)
TEXTRON AVIATION Inc.	180H	Metal	Cessna 180 Series (Continental)
TEXTRON AVIATION Inc.	180J	Metal	Cessna 180 Series (Continental)
TEXTRON AVIATION Inc.	180K	Metal	Cessna 180 Series (Continental)
TEXTRON AVIATION Inc.	185	Metal	Cessna 185 Series (Continental)
TEXTRON AVIATION Inc.	185A	Metal	Cessna 185 Series (Continental)
TEXTRON AVIATION Inc.	185B	Metal	Cessna 185 Series (Continental)
TEXTRON AVIATION Inc.	185C	Metal	Cessna 185 Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	185D	Metal	Cessna 185 Series (Continental)
TEXTRON AVIATION Inc.	185E	Metal	Cessna 185 Series (Continental)
TEXTRON AVIATION Inc.	A185E	Metal	Cessna 185 Series (Continental)
TEXTRON AVIATION Inc.	A185F	Metal	Cessna 185 Series (Continental)
TEXTRON AVIATION Inc.	188	Metal	Cessna 188 (Continental)
TEXTRON AVIATION Inc.	188A	Metal	Cessna 188 (Continental)
TEXTRON AVIATION Inc.	188B	Metal	Cessna 188 (Continental)
TEXTRON AVIATION Inc.	A188	Metal	Cessna 188 (Continental)
TEXTRON AVIATION Inc.	A188A	Metal	Cessna 188 (Continental)
TEXTRON AVIATION Inc.	A188B	Metal	Cessna 188 (Continental)
TEXTRON AVIATION Inc.	T188C	Metal	Cessna 188 (Continental)
TEXTRON AVIATION Inc.	206	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	P206	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	P206A	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	P206B	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	P206C	Metal	Cessna 206 series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	P206D	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	P206E	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TP206A	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TP206B	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TP206C	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TP206D	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TP206E	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TU206A	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TU206B	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TU206C	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TU206D	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TU206E	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TU206F	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	TU206G	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	U206	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	U206A	Metal	Cessna 206 series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	U206B	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	U206C	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	U206D	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	U206E	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	U206F	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	U206G	Metal	Cessna 206 series (Continental)
TEXTRON AVIATION Inc.	206H	Metal	Cessna 206 series (Lycoming)
TEXTRON AVIATION Inc.	T206H	Metal	Cessna 206 series (Lycoming)
TEXTRON AVIATION Inc.	207	Metal	Cessna 207 series (Continental)
TEXTRON AVIATION Inc.	207A	Metal	Cessna 207 series (Continental)
TEXTRON AVIATION Inc.	T207	Metal	Cessna 207 series (Continental)
TEXTRON AVIATION Inc.	T207A	Metal	Cessna 207 series (Continental)
TEXTRON AVIATION Inc.	210	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210-5 (205)	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210-5A (205A)	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210A	Metal	Cessna 210 series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	210B	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210C	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210D	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210E	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210F	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210G	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210H	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210J	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210K	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210L	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210M	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210N	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	210R	Metal	Cessna 210 series (Continental)
TEXTRON AVIATION Inc.	310	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	320	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310B	Metal	Cessna 310/320 series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	310C	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310D	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310F	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310G	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310H	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310I	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310J	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310J-1	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310K	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310L	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310N	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310P	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310Q	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	310R	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	320-1	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	320A	Metal	Cessna 310/320 series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	320B	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	320C	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	320D	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	320E	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	320F	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	E310H	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	E310J	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	T310P	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	T310Q	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	T310R	Metal	Cessna 310/320 series (Continental)
TEXTRON AVIATION Inc.	321	Metal	Cessna 321 (Continental)
TEXTRON AVIATION Inc.	335	Metal	Cessna 335 (Continental)
TEXTRON AVIATION Inc.	336	Metal	Cessna 336 (Continental)
TEXTRON AVIATION Inc.	340	Metal + Pressurised	Cessna 340 (Continental)
TEXTRON AVIATION Inc.	340A	Metal + Pressurised	Cessna 340 (Continental)
TEXTRON AVIATION Inc.	LC40-550FG	Composite	Cessna C300/C350/C400 (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	LC41-550FG	Composite	Cessna C300/C350/C400 (Continental)
TEXTRON AVIATION Inc.	LC42-550FG	Composite	Cessna C300/C350/C400 (Continental)
TEXTRON AVIATION Inc.	T240	Composite	Cessna C300/C350/C400 (Continental)
TEXTRON AVIATION Inc.	P210N	Metal + Pressurised	Cessna P210 (Continental)
TEXTRON AVIATION Inc.	P210R	Metal + Pressurised	Cessna P210 (Continental)
TEXTRON AVIATION Inc.	T210F	Metal	Cessna T210 (Continental)
TEXTRON AVIATION Inc.	T210G	Metal	Cessna T210 (Continental)
TEXTRON AVIATION Inc.	T210H	Metal	Cessna T210 (Continental)
TEXTRON AVIATION Inc.	T210J	Metal	Cessna T210 (Continental)
TEXTRON AVIATION Inc.	T210K	Metal	Cessna T210 (Continental)
TEXTRON AVIATION Inc.	T210L	Metal	Cessna T210 (Continental)
TEXTRON AVIATION Inc.	T210M	Metal	Cessna T210 (Continental)
TEXTRON AVIATION Inc.	T210N	Metal	Cessna T210 (Continental)
TEXTRON AVIATION Inc.	T210R	Metal	Cessna T210 (Continental)
TEXTRON AVIATION Inc.	T303	Metal	Cessna T303 (Continental)
TEXTRON AVIATION Inc.	150	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	150A	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	150B	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	150C	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	150D	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	150E	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	150F	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	150G	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	150H	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	150J	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	150K	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	150L	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	150M	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	A150K	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	A150L	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)
TEXTRON AVIATION Inc.	A150M	Metal	Cessna/Reims-Cessna 150/F150 Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	152	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
TEXTRON AVIATION Inc.	A152	Metal	Cessna/Reims-Cessna 152/F152 Series (Lycoming)
TEXTRON AVIATION Inc.	172	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	172A	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	172B	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	172C	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	172D	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	172E	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	172F	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	172G	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	172H	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	172G	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	172H	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	P172D	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	R172E	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	R172F	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	R172G	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	R172H	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	R172J	Metal	Cessna/Reims-Cessna 172/F172 Series (Continental)
TEXTRON AVIATION Inc.	172I	Metal	Cessna/Reims-Cessna 172/F172 Series (Lycoming)
TEXTRON AVIATION Inc.	172K	Metal	Cessna/Reims-Cessna 172/F172 Series (Lycoming)
TEXTRON AVIATION Inc.	172L	Metal	Cessna/Reims-Cessna 172/F172 Series (Lycoming)
TEXTRON AVIATION Inc.	172M	Metal	Cessna/Reims-Cessna 172/F172 Series (Lycoming)
TEXTRON AVIATION Inc.	172N	Metal	Cessna/Reims-Cessna 172/F172 Series (Lycoming)
TEXTRON AVIATION Inc.	172P	Metal	Cessna/Reims-Cessna 172/F172 Series (Lycoming)
TEXTRON AVIATION Inc.	172Q	Metal	Cessna/Reims-Cessna 172/F172 Series (Lycoming)
TEXTRON AVIATION Inc.	172R	Metal	Cessna/Reims-Cessna 172/F172 Series (Lycoming)
TEXTRON AVIATION Inc.	172RG	Metal	Cessna/Reims-Cessna 172/F172 Series (Lycoming)
TEXTRON AVIATION Inc.	172S	Metal	Cessna/Reims-Cessna 172/F172 Series (Lycoming)
TEXTRON AVIATION Inc.	182	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182A	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182B	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	182C	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182D	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182E	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182F	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182G	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182H	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182J	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182K	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182L	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182M	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182N	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182P	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182Q	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	182R	Metal	Cessna/Reims-Cessna 182/F182 Series (Continental)
TEXTRON AVIATION Inc.	R182	Metal	Cessna/Reims-Cessna 182/F182 Series (Lycoming)
TEXTRON AVIATION Inc.	T182T	Metal	Cessna/Reims-Cessna 182/F182 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	182S	Metal	Cessna/Reims-Cessna 182/F182 Series (Lycoming)
TEXTRON AVIATION Inc.	182T	Metal	Cessna/Reims-Cessna 182/F182 Series (Lycoming)
TEXTRON AVIATION Inc.	T337H-SP	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	337	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	337A	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	337B	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	337C	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	337D	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	337E	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	337F	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	337G	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	337H	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	M337B	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	T337B	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	T337C	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	T337D	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TEXTRON AVIATION Inc.	T337E	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	T337F	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	T337G	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	T337H	Metal	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	P337H	Metal + pressurised	Cessna/Reims-Cessna 337 Series (Continental) (not pressurised)
TEXTRON AVIATION Inc.	T182F	Metal	Cessna/Reims-Cessna T182 Series (Lycoming)
TEXTRON AVIATION Inc.	TR182	Metal	Cessna/Reims-Cessna T182 Series (Lycoming)
THRUSH AIRCRAFT	S2R	Metal	Thrush S2R Series (PW R1340)
THRUSH AIRCRAFT	S2R-R1340	Metal	Thrush S2R Series (PW R1340)
THRUSH AIRCRAFT	S2R-R1820	Metal	Thrush S2R Series (Wright R-1820)
TOMARK, s.r.o.	Viper SD-4 RTC	Metal	Tomark Viper SD-4 (Rotax)
TOMARK, s.r.o.	Viper SD-4 Night-VFR	Metal	Tomark Viper SD-4 (Rotax)
TRUE FLIGHT Holdings	AA-1	Metal	Grumman/American AA-1 Series (Lycoming)
TRUE FLIGHT Holdings	AA-1A	Metal	Grumman/American AA-1 Series (Lycoming)
TRUE FLIGHT Holdings	AA-1B	Metal	Grumman/American AA-1 Series (Lycoming)
TRUE FLIGHT Holdings	AA-1C	Metal	Grumman/American AA-1 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TRUE FLIGHT Holdings	AA-5	Metal	Grumman/American AA-5 Series (Lycoming)
TRUE FLIGHT Holdings	AA-5A	Metal	Grumman/American AA-5 Series (Lycoming)
TRUE FLIGHT Holdings	AA-5B	Metal	Grumman/American AA-5 Series (Lycoming)
TRUE FLIGHT Holdings	AG-5B	Metal	Grumman/American AA-5 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	500A	Metal	Twin Commander 500 Series (Continental)
TWIN COMMANDER AIRCRAFT Corporation	500	Metal	Twin Commander 500 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	520	Metal	Twin Commander 500 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	560	Metal	Twin Commander 500 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	500B	Metal	Twin Commander 500 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	500S	Metal	Twin Commander 500 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	500U	Metal	Twin Commander 500 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TWIN COMMANDER AIRCRAFT Corporation	560A	Metal	Twin Commander 500 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	560E	Metal	Twin Commander 500 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	685	Metal + Pressurised	Twin Commander 600 Series (Continental)
TWIN COMMANDER AIRCRAFT Corporation	680	Metal	Twin Commander 600 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	560F	Metal	Twin Commander 600 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	680E	Metal	Twin Commander 600 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	680F	Metal	Twin Commander 600 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	680FL	Metal	Twin Commander 600 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	720	Metal + Pressurised	Twin Commander 600 Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
TWIN COMMANDER AIRCRAFT Corporation	680FL(P)	Metal + Pressurised	Twin Commander 600 Series (Lycoming)
TWIN COMMANDER AIRCRAFT Corporation	700	Metal + Pressurised	Twin Commander 700 Series (Lycoming)
VULCANAIR	P.68 ‘Observer 2’	Metal	Vulcanair P.68 Series (Lycoming)
VULCANAIR	P.68 ‘Observer’	Metal	Vulcanair P.68 Series (Lycoming)
VULCANAIR	P.68 ‘Victor’	Metal	Vulcanair P.68 Series (Lycoming)
VULCANAIR	P.68B ‘Victor’	Metal	Vulcanair P.68 Series (Lycoming)
VULCANAIR	P.68C	Metal	Vulcanair P.68 Series (Lycoming)
VULCANAIR	P.68C-TC	Metal	Vulcanair P.68 Series (Lycoming)
VULCANAIR	P.68R ‘Victor’	Metal	Vulcanair P.68 Series (Lycoming)
VULCANAIR	P.68TC ‘Observer’	Metal	Vulcanair P.68 Series (Lycoming)
VULCANAIR	P.64 ‘Oscar’	Metal	Vulcanair P.64 series/V1.0/V1.1 (Lycoming)
VULCANAIR	P.64B ‘Oscar 200’	Metal	Vulcanair P.64 series/V1.0/V1.1 (Lycoming)
VULCANAIR	P.64B ‘Oscar B 1155’	Metal	Vulcanair P.64 series/V1.0/V1.1 (Lycoming)
VULCANAIR	P.64B ‘Oscar B’	Metal	Vulcanair P.64 series/V1.0/V1.1 (Lycoming)
VULCANAIR	VULCANAIR V1.0 (formerly P.64B ‘OSCAR B 1155’)	Metal	Vulcanair P.64 series/V1.0/V1.1 (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
VULCANAIR	VULCANAIR V1.1 (formerly P.64B 'Oscar 200'	Metal	Vulcanair P.64 series/V1.0/V1.1 (Lycoming)
VULCANAIR	P.66B 'Oscar 100'	Metal	Vulcanair P.66 series/ V1.100L/V1.150L/V1.CL (Lycoming)
VULCANAIR	P.66B 'Oscar 150'	Metal	Vulcanair P.66 series/V1.100L/V1.150L/V1.CL (Lycoming)
VULCANAIR	P.66C 'CHARLIE'	Metal	Vulcanair P.66 series/V1.100L/V1.150L/V1.CL (Lycoming)
VULCANAIR	VULCANAIR V1.100L (formerly P.66B 'Oscar 100')	*Metal*	Vulcanair P.66 series/ V1.100L/V1.150L/V1.CL (Lycoming)
VULCANAIR	VULCANAIR V1.150L (formerly P.66B 'Oscar 150')	*Metal*	Vulcanair P.66 series/ V1.100L/V1.150L/V1.CL (Lycoming)
VULCANAIR	VULCANAIR V1.CL (formerly P.66C 'Charlie')	Metal	Vulcanair P.66 series/ V1.100L/V1.150L/V1.CL (Lycoming)
WACO Aircraft Company	YMF F5	Wood + Metal tubing Fabric	Waco YMF (Jacobs)
WACO Aircraft Company	YMF F5C	Wood + Metal tubing Fabric	Waco YMF (Jacobs)
WACO Classic Aircraft Corp	2T-1A-1	Wood + Metal tubing Fabric	Waco 2T Series (Lycoming)
WACO Classic Aircraft Corp	2T-1A-2	Wood + Metal tubing Fabric	Waco 2T Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
WASSMER (Aircraft with SAS)	CE 43	Metal	CERVA CE43 (Lycoming)
WASSMER (Aircraft with SAS)	WA 4/21	Wood + Metal tubing Fabric	WA4/21 Series (Lycoming)
WASSMER (Aircraft with SAS)	WA 4/21/250 'Super 4/21'	Wood + Metal tubing Fabric	WA4/21 Series (Lycoming)
WASSMER (Aircraft with SAS)	WA 40 A	Wood + Metal tubing Fabric	WA40 Series (Lycoming)
WASSMER (Aircraft with SAS)	WA 40 'SUPER IV'	Wood + Metal tubing Fabric	WA40 Series (Lycoming)
WASSMER (Aircraft with SAS)	WA 40 B 'Super IV Sancy'	Wood + Metal tubing Fabric	WA40 Series (Lycoming)
WASSMER (Aircraft with SAS)	WA 41 'Baladou'	Wood + Metal tubing Fabric	WA41 (Lycoming)
WITHOUT TC HOLDER - ORPHANED (ex Fournier, René)	RF 3	Wood	RF 3 (Rectimo)
WITHOUT TC HOLDER - ORPHANED (ex Fournier, René)	RF 4	Wood	RF 4 (VW)
WITHOUT TC HOLDER - ORPHANED (ex Fournier, René)	RF 47	Wood	RF 47 (Limbach)
WITHOUT TC HOLDER - ORPHANED (ex Fournier, René)	RF.6.B. 100	Wood	RF 6B (Continental)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
WITHOUT TC HOLDER - ORPHANED (ex Fournier, René)	RF.6.B. 120	Wood	RF 6B (Lycoming)
WITHOUT TC HOLDER - ORPHANED (ex Fournier, René)	RF.6.B. 90	Wood	RF 6B (Lycoming)
XtremeAir GmbH	XA41	Composite	XtremeAir XA42 (Lycoming)
XtremeAir GmbH	XA42	Composite	XtremeAir XA42 (Lycoming)
YAKOVLEV (Aircraft with SAS)	YAK-18T	Metal	Yakovlev YAK-18T (Vedeneyev)
ZAKŁADY LOTNICZE	EM-11C ORKA	Composite	EM-11 (Lycoming)
ZENAIR LTD	CH 2000	Metal	Zenair CH2000 (Lycoming)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 143 L	Metal	Zlin Z-143 L (Lycoming)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 143 Lsi	Metal	Zlin Z-143 L (Lycoming)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 242 L	Metal	Zlin Z-242 L (Lycoming)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 126	Metal	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 126 T	Metal	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 226 A	Metal	Zlin Z-26 Series (Walter Minor/AVIA)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 226 B	Metal	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 226 M	Metal	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 226 MS	Metal	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 226 T	Metal	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 326	Metal	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 226 A	Metal	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 226 M	Metal	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 526	Metal + Metal tubing & fabric	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 526A	Metal + Metal tubing & fabric	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 526 AFS	Metal + Metal tubing & fabric	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 526 AFS-V	Metal + Metal tubing & fabric	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 526 F	Metal + Metal tubing & fabric	Zlin Z-26 Series (Walter Minor/AVIA)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 526 M	Metal + Metal tubing & fabric	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 726	Metal + Metal tubing & fabric	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 726 K	Metal + Metal tubing & fabric	Zlin Z-26 Series (Walter Minor/AVIA)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 142	Metal	Zlin Z-42 Series (LOM)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 142 C	Metal	Zlin Z-42 Series (LOM)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 42 M	Metal	Zlin Z-42 Series (LOM)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 42 MU	Metal	Zlin Z-42 Series (LOM)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 43	Metal	Zlin Z-42 Series (LOM)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 50 M	Metal	Zlin Z-50 Series (LOM)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 50 L	Metal	Zlin Z-50L Series (Lycoming)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 50 LA	Metal	Zlin Z-50L Series (Lycoming)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 50 LS	Metal	Zlin Z-50L Series (Lycoming)

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)			
TC Holder	**Model**	**Type of structure**	**AAR-66 type rating endorsement**
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 50 LX	Metal	Zlin Z-50L Series (Lycoming)
ZLIN AIRCRAFT (MORAVAN AVIATION)	Z 526 L	Metal	Zlin Z-526 L (Lycoming)

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
AEROCLUBUL ROMANIEI	IS-28B2	metal
AEROCLUBUL ROMANIEI	IS-29D	metal
AEROCLUBUL ROMANIEI	IS-29D2	metal
AEROCLUBUL ROMANIEI	IS-30	metal
AEROCLUBUL ROMANIEI	IS-32A	metal
AIRBUS DEFENCE AND SPACE GmbH	FS 24 "Phoenix T"	composite
AIRBUS DEFENCE AND SPACE GmbH	FS 24 "Phoenix T0"	composite
AIRBUS DEFENCE AND SPACE GmbH	FS 24 "Phoenix"	composite
AIRBUS DEFENCE AND SPACE GmbH	Phoebus A0	composite
AIRBUS DEFENCE AND SPACE GmbH	Phoebus A1	composite
AIRBUS DEFENCE AND SPACE GmbH	Phoebus B1	composite
AIRBUS DEFENCE AND SPACE GmbH	Phoebus C	composite
ALEXANDER SCHLEICHER	AS 12	composite
ALEXANDER SCHLEICHER	ASG 32	composite
ALEXANDER SCHLEICHER	ASG 32 MI	composite
ALEXANDER SCHLEICHER	ASH 25	composite
ALEXANDER SCHLEICHER	ASH 26	composite
ALEXANDER SCHLEICHER	AS-K 13	composite
ALEXANDER SCHLEICHER	ASK 18	composite
ALEXANDER SCHLEICHER	ASK 18 B	composite
ALEXANDER SCHLEICHER	ASK 21	composite
ALEXANDER SCHLEICHER	ASK 21 B	composite
ALEXANDER SCHLEICHER	ASK 23	composite
ALEXANDER SCHLEICHER	ASK 23 B	composite
ALEXANDER SCHLEICHER	ASW 12	composite

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
ALEXANDER SCHLEICHER	ASW 12 BV	composite
ALEXANDER SCHLEICHER	ASW 15	composite
ALEXANDER SCHLEICHER	ASW 15 B	composite
ALEXANDER SCHLEICHER	ASW 17	composite
ALEXANDER SCHLEICHER	ASW 19	composite
ALEXANDER SCHLEICHER	ASW 19 B	composite
ALEXANDER SCHLEICHER	ASW 20	composite
ALEXANDER SCHLEICHER	ASW 20 B	composite
ALEXANDER SCHLEICHER	ASW 20 BL	composite
ALEXANDER SCHLEICHER	ASW 20 C	composite
ALEXANDER SCHLEICHER	ASW 20 CL	composite
ALEXANDER SCHLEICHER	ASW 20 L	composite
ALEXANDER SCHLEICHER	ASW 22	composite
ALEXANDER SCHLEICHER	ASW 22 B	composite
ALEXANDER SCHLEICHER	ASW 22 BE	composite
ALEXANDER SCHLEICHER	ASW 22 BL	composite
ALEXANDER SCHLEICHER	ASW 24	composite
ALEXANDER SCHLEICHER	ASW 24 B	composite
ALEXANDER SCHLEICHER	ASW 27	composite
ALEXANDER SCHLEICHER	ASW 27-18	composite
ALEXANDER SCHLEICHER	ASW 28	composite
ALEXANDER SCHLEICHER	ASW 28-18	composite
ALEXANDER SCHLEICHER	K 10 A	wood
ALEXANDER SCHLEICHER	K 7	metal-tube, wood
ALEXANDER SCHLEICHER	K 8	metal-tube, wood

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
ALEXANDER SCHLEICHER	K 8 B	metal-tube, wood
ALEXANDER SCHLEICHER	K 8 C	metal-tube, wood
ALEXANDER SCHLEICHER	Ka 6 BR	wood
ALEXANDER SCHLEICHER	Ka 6 BR-Pe	wood
ALEXANDER SCHLEICHER	Ka 6 C	wood
ALEXANDER SCHLEICHER	Ka 6 CR	wood
ALEXANDER SCHLEICHER	Ka 6 CR-PE	wood
ALEXANDER SCHLEICHER	Ka 6 E	wood
ALEXANDER SCHLEICHER	Ka 6/0	wood
ALLSTAR PZL GLIDER SP. Z.O.O.	SZD-48-3 Jantar Standard 3	composite
ALLSTAR PZL GLIDER SP. Z.O.O.	SZD-50-3 "Puchacz"	composite
ALLSTAR PZL GLIDER SP. Z.O.O.	SZD-51-1 "Junior"	composite
ALLSTAR PZL GLIDER SP. Z.O.O.	SZD-55-1	composite
ALLSTAR PZL GLIDER SP. Z.O.O.	SZD-59 "Acro"	composite
AVIACOM.PL SP. ZO.O.	B1-PW-5	composite
AVIACOM.PL SP. ZO.O.	B1-PW-5D	composite
AVIONIC SPOLKA JAWNA	SZD-56-1 "Diana"	composite
AVIONIC SPOLKA JAWNA	SZD-56-2 "Diana 2"	composite
BARRY AVIATION, LLC	KR-03A	metal
BARRY AVIATION, LLC	L-33 SOLO	metal
BARRY AVIATION, LLC	L 13 A Blanik	metal
BARRY AVIATION, LLC	L 23 SUPER-BLANIK	metal
BARRY AVIATION, LLC	L-13 “BLANIK”	metal
BARRY AVIATION, LLC	L-13 AC BLANIK	metal

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
DG FLUGZEUGBAU GMBH	DG-100	composite
DG FLUGZEUGBAU GMBH	DG-100 ELAN	composite
DG FLUGZEUGBAU GMBH	DG-100 G	composite
DG FLUGZEUGBAU GMBH	DG-100 G ELAN	composite
DG FLUGZEUGBAU GMBH	DG-100S	composite
DG FLUGZEUGBAU GMBH	DG-200	composite
DG FLUGZEUGBAU GMBH	DG-200/17	composite
DG FLUGZEUGBAU GMBH	DG-200/17 C	composite
DG FLUGZEUGBAU GMBH	DG-300	composite
DG FLUGZEUGBAU GMBH	DG-300 CLUB ELAN	composite
DG FLUGZEUGBAU GMBH	DG-300 CLUB ELAN ACRO	composite
DG FLUGZEUGBAU GMBH	DG-300 ELAN	composite
DG FLUGZEUGBAU GMBH	DG-300 ELAN ACRO	composite
DG FLUGZEUGBAU GMBH	DG-500 ELAN ORION	composite
DG FLUGZEUGBAU GMBH	DG-500 ELAN TRAINER	composite
DG FLUGZEUGBAU GMBH	DG-600	composite
DG FLUGZEUGBAU GMBH	DG-600/18	composite
DG FLUGZEUGBAU GMBH	DG-800 S	composite
DG FLUGZEUGBAU GMBH	DG-808 S	composite
DG FLUGZEUGBAU GMBH	LS 1-0	composite
DG FLUGZEUGBAU GMBH	LS 10-a	composite
DG FLUGZEUGBAU GMBH	LS 1-a	composite
DG FLUGZEUGBAU GMBH	LS 1-b	composite

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
DG FLUGZEUGBAU GMBH	LS 1-c	composite
DG FLUGZEUGBAU GMBH	LS 1-d	composite
DG FLUGZEUGBAU GMBH	LS 1-e	composite
DG FLUGZEUGBAU GMBH	LS 1-f	composite
DG FLUGZEUGBAU GMBH	LS 1-f (45)	composite
DG FLUGZEUGBAU GMBH	LS 3	composite
DG FLUGZEUGBAU GMBH	LS 3-17	composite
DG FLUGZEUGBAU GMBH	LS 3-a	composite
DG FLUGZEUGBAU GMBH	LS 4	composite
DG FLUGZEUGBAU GMBH	LS 4-a	composite
DG FLUGZEUGBAU GMBH	LS 4-b	composite
DG FLUGZEUGBAU GMBH	LS 6	composite
DG FLUGZEUGBAU GMBH	LS 6-18w	composite
DG FLUGZEUGBAU GMBH	LS 6-a	composite
DG FLUGZEUGBAU GMBH	LS 6-b	composite
DG FLUGZEUGBAU GMBH	LS 6-c	composite
DG FLUGZEUGBAU GMBH	LS 6-c18	composite
DG FLUGZEUGBAU GMBH	LS 7	composite
DG FLUGZEUGBAU GMBH	LS 7-WL	composite
DG FLUGZEUGBAU GMBH	LS10-s	composite
DG FLUGZEUGBAU GMBH	LS8	composite
DG FLUGZEUGBAU GMBH	LS8-18	composite
DG FLUGZEUGBAU GMBH	LS8-a	composite
DG FLUGZEUGBAU GMBH	LS8-b	composite
DG FLUGZEUGBAU GMBH	LS 8-s	composite

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
DG FLUGZEUGBAU GMBH	LS 8-sb	composite
ECOFLY GMBH	FK 3	metal
EICHELSDOERFER GMBH	mistral-c	composite
EICHELSDOERFER GMBH	SB 5 B	wood
EICHELSDOERFER GMBH	SB 5 E	wood
FIBERGLAS TECHNIK R. LINDNER	ASTIR CS	composite
FIBERGLAS TECHNIK R. LINDNER	ASTIR CS 77	composite
FIBERGLAS TECHNIK R. LINDNER	ASTIR CS Jeans	composite
FIBERGLAS TECHNIK R. LINDNER	CLUB ASTIR II	composite
FIBERGLAS TECHNIK R. LINDNER	GROB G 103 "TWIN II"	composite
FIBERGLAS TECHNIK R. LINDNER	GROB G 103 A "TWIN II ACRO"	composite
FIBERGLAS TECHNIK R. LINDNER	GROB G 103 C "TWIN III ACRO"	composite
FIBERGLAS TECHNIK R. LINDNER	GROB G 103 C "TWIN III"	composite
FIBERGLAS TECHNIK R. LINDNER	GROB G102 "CLUB ASTIR III b"	composite
FIBERGLAS TECHNIK R. LINDNER	GROB G102 "CLUB ASTIR III"	composite
FIBERGLAS TECHNIK R. LINDNER	GROB G102 "STANDARD ASTIR III"	composite
FIBERGLAS TECHNIK R. LINDNER	SPEED ASTIR II	composite
FIBERGLAS TECHNIK R. LINDNER	SPEED ASTIR II B	composite
FIBERGLAS TECHNIK R. LINDNER	STANDARD ASTIR II	composite
FIBERGLAS TECHNIK R. LINDNER	TWIN ASTIR	composite
FIBERGLAS TECHNIK R. LINDNER	TWIN ASTIR TRAINER	composite

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
GLASFASER-FLUGZEUG-SERVICE	BS 1	composite
GLASFASER-FLUGZEUG-SERVICE	Club Libelle 205	composite
GLASFASER-FLUGZEUG-SERVICE	Glasflügel 304	composite
GLASFASER-FLUGZEUG-SERVICE	Glasflügel 604	composite
GLASFASER-FLUGZEUG-SERVICE	H 301 "Libelle"	composite
GLASFASER-FLUGZEUG-SERVICE	H 301 B	composite
GLASFASER-FLUGZEUG-SERVICE	H 301 serial No. 1	composite
GLASFASER-FLUGZEUG-SERVICE	Hornet	composite
GLASFASER-FLUGZEUG-SERVICE	Hornet C	composite
GLASFASER-FLUGZEUG-SERVICE	Kestrel	composite
GLASFASER-FLUGZEUG-SERVICE	Mosquito	composite
GLASFASER-FLUGZEUG-SERVICE	Mosquito B	composite
GLASFASER-FLUGZEUG-SERVICE	Standard Libelle	composite
GLASFASER-FLUGZEUG-SERVICE	Standard Libelle 201 B	composite
GLASFASER-FLUGZEUG-SERVICE	Standard Libelle 203	composite
HPH SPOL SRO	Glasflügel 304 C	composite
HPH SPOL SRO	Glasflügel 304 CZ	composite
HPH SPOL SRO	Glasflügel 304 CZ-17	composite
HPH SPOL SRO	Glasflügel 304 S	composite
M & D FLUGZEUGBAU GMBH	JS-MD 1C	composite
PILATUS AIRCRAFT LTD.	B4-PC11	metal
PILATUS AIRCRAFT LTD.	B4-PC11A	metal
PILATUS AIRCRAFT LTD.	B4-PC11AF	metal
SCHEIBE AIRCRAFT GMBH	Bergfalke II	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Bergfalke II-55	metal-tube, wood

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
SCHEIBE AIRCRAFT GMBH	Bergfalke III	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Bergfalke IV	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	L-Spatz	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	L-Spatz 55	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	L-Spatz III	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Mü 13 E "Bergfalke"	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 26 A "Standard"	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 27 A	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 27 B	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 30 A “Club-Spatz”	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 34	composite
SCHEIBE AIRCRAFT GMBH	SF 34 B	composite
SCHEIBE AIRCRAFT GMBH	Spatz 55	composite
SCHEIBE AIRCRAFT GMBH	Spatz A	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Spatz B	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Spatz 55	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Specht	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Sperber	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Zugvogel I	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Zugvogel II	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Zugvogel III	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Zugvogel III A	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Zugvogel III B	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Zugvogel IV	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	Zugvogel IV A	metal-tube, wood

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
SCHEMPP HIRTH FLUGZEUGBAU	Arcus	composite
SCHEMPP HIRTH FLUGZEUGBAU	Cirrus	composite
SCHEMPP HIRTH FLUGZEUGBAU	Cirrus-VTC	composite
SCHEMPP HIRTH FLUGZEUGBAU	Discus a	composite
SCHEMPP HIRTH FLUGZEUGBAU	Discus b	composite
SCHEMPP HIRTH FLUGZEUGBAU	Discus CS	composite
SCHEMPP HIRTH FLUGZEUGBAU	Discus-2a	composite
SCHEMPP HIRTH FLUGZEUGBAU	Discus-2b	composite
SCHEMPP HIRTH FLUGZEUGBAU	Discus-2c	composite
SCHEMPP HIRTH FLUGZEUGBAU	Duo Discus	composite
SCHEMPP HIRTH FLUGZEUGBAU	Duo Discus C	composite
SCHEMPP HIRTH FLUGZEUGBAU	Janus	composite
SCHEMPP HIRTH FLUGZEUGBAU	Janus B	composite
SCHEMPP HIRTH FLUGZEUGBAU	Janus C	composite
SCHEMPP HIRTH FLUGZEUGBAU	Janus Ce	composite
SCHEMPP HIRTH FLUGZEUGBAU	Mini Nimbus B	composite
SCHEMPP HIRTH FLUGZEUGBAU	Mini Nimbus C	composite
SCHEMPP HIRTH FLUGZEUGBAU	Mini Nimbus HS 7	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-2	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-2B	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-2C	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-3	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-3/24,5	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-3D	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-4	composite

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-4D	composite
SCHEMPP HIRTH FLUGZEUGBAU	S	wood
SCHEMPP HIRTH FLUGZEUGBAU	SH	wood
SCHEMPP HIRTH FLUGZEUGBAU	SH 1	wood
SCHEMPP HIRTH FLUGZEUGBAU	SHK 1	wood
SCHEMPP HIRTH FLUGZEUGBAU	Standard Cirrus	composite
SCHEMPP HIRTH FLUGZEUGBAU	Standard Cirrus B	composite
SCHEMPP HIRTH FLUGZEUGBAU	Standard Cirrus CS 11-75L	composite
SCHEMPP HIRTH FLUGZEUGBAU	Standard Cirrus G	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus a	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus a/16.6	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus b	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus b/16.6	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus c	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus-2a	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus-2b	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus-2c	composite
SCHEMPP HIRTH VÝROBA LETADEL	VSO 10	composite
SCHEMPP HIRTH VÝROBA LETADEL	VSO 10 C	composite
SN CENTRAIR	101	composite
SN CENTRAIR	101 A	composite
SN CENTRAIR	101 AP	composite
SN CENTRAIR	101 B	composite
SN CENTRAIR	101 BC	composite

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
SN CENTRAIR	101 D	composite
SN CENTRAIR	101 P	composite
SN CENTRAIR	201 A	composite
SN CENTRAIR	201 B	composite
SN CENTRAIR	201 B1	composite
SN CENTRAIR	ASW 20 F	composite
SN CENTRAIR	ASW 20 FL	composite
SN CENTRAIR	SNC 34C	composite
SPORTINE AVIACIJA IR KO	LAK-12	composite
SPORTINE AVIACIJA IR KO	LAK-17A	composite
SPORTINE AVIACIJA IR KO	LAK-19	composite
WITHOUT TC HOLDER - ORPHANED	905 A	wood
WITHOUT TC HOLDER - ORPHANED	905 S	wood
WITHOUT TC HOLDER - ORPHANED	905 SA	wood
WITHOUT TC HOLDER - ORPHANED	Avia Strotel AC-4c	composite
WITHOUT TC HOLDER - ORPHANED	Carman-Morelli M200	wood
WITHOUT TC HOLDER - ORPHANED	Diamant 16.5	composite
WITHOUT TC HOLDER - ORPHANED	Diamant 18	composite
WITHOUT TC HOLDER - ORPHANED	Elfe S3	metal, wood, composite
WITHOUT TC HOLDER - ORPHANED	Elfe S4	metal, wood, composite
WITHOUT TC HOLDER - ORPHANED	Elfe S4A	metal, wood, composite
WITHOUT TC HOLDER - ORPHANED	Glasflügel 304 B	composite
WITHOUT TC HOLDER - ORPHANED	H 101 "Salto"	composite

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
WITHOUT TC HOLDER - ORPHANED	HBV-Diamant	composite
WITHOUT TC HOLDER - ORPHANED	JP 15-36A	composite
WITHOUT TC HOLDER - ORPHANED	JP 15-36 AR	composite
WITHOUT TC HOLDER - ORPHANED	Kenilworth Me7	composite
WITHOUT TC HOLDER - ORPHANED	PIK 20	composite
WITHOUT TC HOLDER - ORPHANED	PIK 20B	composite
WITHOUT TC HOLDER - ORPHANED	PIK-20D	composite
WITHOUT TC HOLDER - ORPHANED	Siren "Edelweiss" C30S	wood
WITHOUT TC HOLDER - ORPHANED	Slingsby T51 Dart 15	wood
WITHOUT TC HOLDER - ORPHANED	Slingsby T51 Dart 17	wood
WITHOUT TC HOLDER - ORPHANED	Slingsby T51 Dart 17R	wood
WITHOUT TC HOLDER - ORPHANED	Slingsby T53B	composite
WITHOUT TC HOLDER - ORPHANED	Slingsby T59D	composite
WITHOUT TC HOLDER - ORPHANED	Standard Cirrus 75 VTC	composite
WITHOUT TC HOLDER - ORPHANED	Standard Cirrus G/81	composite
WITHOUT TC HOLDER - ORPHANED	T.65 “Vega”	composite
WITHOUT TC HOLDER - ORPHANED	WA 26 CM	wood, composite
WITHOUT TC HOLDER - ORPHANED	WA 26 P	wood, composite
WITHOUT TC HOLDER - ORPHANED	WA 28	composite
WITHOUT TC HOLDER - ORPHANED	WA 28 E	composite
WITHOUT TC HOLDER - ORPHANED	WA 28 EF	composite
WITHOUT TC HOLDER - ORPHANED	WA 28 F	composite
ZAKLAD SZYBOWCOWY JEZOW	PW-5 "Smyk"	composite
ZAKLAD SZYBOWCOWY JEZOW	PW-6U	composite

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
ZAKLAD SZYBOWCOWY JEZOW	SZD-22B "Mucha-Standard"	wood
ZAKLAD SZYBOWCOWY JEZOW	SZD-22C "Mucha-Standard"	wood
ZAKLAD SZYBOWCOWY JEZOW	SZD-24 C “Foka”	wood
ZAKLAD SZYBOWCOWY JEZOW	SZD-24-4A	wood
ZAKLAD SZYBOWCOWY JEZOW	SZD-25A Lis	metal-tube, wood
ZAKLAD SZYBOWCOWY JEZOW	SZD-30 “Pirat”	wood
ZAKLAD SZYBOWCOWY JEZOW	SZD-30C “Pirat”	wood
ZAKLAD SZYBOWCOWY JEZOW	SZD-32A “Foka 5”	wood
ZAKLAD SZYBOWCOWY JEZOW	SZD-36A “Cobra 15”	wood, composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-38A “Jantar 1”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-41A “Jantar Standard”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-42 “Jantar 2”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-42-1 “Jantar 2”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-42-2 “Jantar 2B”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-48 “Jantar Standard 2”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-48-1 “Jantar Standard 2”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-48-1M “Jantar Standard 2M”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-48-3M “Brawo”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-48-3M1 “Brawo”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-48M “Jantar Standard 2M”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-52-3 “Krokus S”	composite

GROUP 4 SAILPLANES		
TC Holder	**Model**	**Type of structure**
ZAKLAD SZYBOWCOWY JEZOW	SZD-52-4 “Krokus C”	composite
ZAKLAD SZYBOWCOWY JEZOW	SZD-9 bis 1 D "Bocian"	wood
ZAKLAD SZYBOWCOWY JEZOW	SZD-9 bis 1 E "Bocian"	wood
ZAKLADY LOTNICZE	MDM-1 “Fox”	composite
ZAKLADY LOTNICZE	MDM-1P “Fox-P”	composite
ZAKLADY LOTNICZE	Swift S-1	composite

GROUP 4 POWERED SAILPLANES		
TC Holder	**Model**	**Type of structure**
AEROCLUBUL ROMANIEI	IS-28M2	metal
AEROCLUBUL ROMANIEI	IS-28M2/80HP	metal
AEROCLUBUL ROMANIEI	IS-28M2/G	metal
AEROCLUBUL ROMANIEI	IS-28M2/GR	metal
AEROMOT - INDUSTRIA MECANICO	AMT-100	composite
AEROMOT - INDUSTRIA MECANICO	AMT-200	composite
AEROMOT - INDUSTRIA MECANICO	AMT-200S	composite
ALEXANDER SCHLEICHER	ASG 32 El	composite
ALEXANDER SCHLEICHER	ASH 25 E	composite
ALEXANDER SCHLEICHER	ASH 25 M	composite
ALEXANDER SCHLEICHER	ASH 26 E	composite
ALEXANDER SCHLEICHER	ASH 30 Mi	composite
ALEXANDER SCHLEICHER	ASH 31 Mi	composite
ALEXANDER SCHLEICHER	ASK 14	metal-tube, wood
ALEXANDER SCHLEICHER	ASK 16	metal-tube, wood
ALEXANDER SCHLEICHER	ASK 16 B	metal-tube, wood
ALEXANDER SCHLEICHER	ASK 21 Mi	composite
ALEXANDER SCHLEICHER	ASW 22 BLE	composite
ALEXANDER SCHLEICHER	ASW 22 BLE 50R	composite
ALEXANDER SCHLEICHER	ASW 22 M	composite
ALEXANDER SCHLEICHER	ASW 24 E	composite
ALEXANDER SCHLEICHER	ASW 27-18E	composite
ALEXANDER SCHLEICHER	ASW 28-18E	composite
AMS-FLIGHT D.O.O.	CARAT A	composite
BINDER MOTORENBAU GMBH	ASH 25 EB	composite

GROUP 4 POWERED SAILPLANES		
TC Holder	**Model**	**Type of structure**
BINDER MOTORENBAU GMBH	ASH 25 EB 28	composite
BINDER MOTORENBAU GMBH	EB 28	composite
BINDER MOTORENBAU GMBH	EB 28 Edition	composite
BINDER MOTORENBAU GMBH	EB 29	composite
BINDER MOTORENBAU GMBH	EB 29D	composite
BINDER MOTORENBAU GMBH	EB29DR	composite
BINDER MOTORENBAU GMBH	EB29R	composite
DG FLUGZEUGBAU GMBH	DG-1000M	composite
DG FLUGZEUGBAU GMBH	DG-1000T	composite
DG FLUGZEUGBAU GMBH	DG-400	composite
DG FLUGZEUGBAU GMBH	DG-500 M	composite
DG FLUGZEUGBAU GMBH	DG-500 MB	composite
DG FLUGZEUGBAU GMBH	DG-600/18 M	composite
DG FLUGZEUGBAU GMBH	DG-600M	composite
DG FLUGZEUGBAU GMBH	DG-800 A	composite
DG FLUGZEUGBAU GMBH	DG-800 B	composite
DG FLUGZEUGBAU GMBH	DG-800 LA	composite
DG FLUGZEUGBAU GMBH	DG-808 C	composite
DG FLUGZEUGBAU GMBH	LS10-st	composite
DG FLUGZEUGBAU GMBH	LS8-t	composite
DG FLUGZEUGBAU GMBH	LS9	composite
DIAMOND AIRCRAFT INDUSTRIES	H 36 "Dimona"	composite
DIAMOND AIRCRAFT INDUSTRIES	HK 36 "Super Dimona"	composite
DIAMOND AIRCRAFT INDUSTRIES	H 36 R "Super Dimona"	composite
DIAMOND AIRCRAFT INDUSTRIES	HK 36 TC	composite

GROUP 4 POWERED SAILPLANES		
TC Holder	**Model**	**Type of structure**
DIAMOND AIRCRAFT INDUSTRIES	HK 36 TS	composite
DIAMOND AIRCRAFT INDUSTRIES	HK 36 TTC	composite
DIAMOND AIRCRAFT INDUSTRIES	HK 36 TTC-ECO	composite
DIAMOND AIRCRAFT INDUSTRIES	HK 36-TTS	composite
E.I.S. HOLDING GmbH	Fournier RF 3	wood
E.I.S. HOLDING GmbH	Fournier RF 4	wood
E.I.S. HOLDING GmbH	Fournier RF 4 D	wood
E.I.S. HOLDING GmbH	Fournier RF 5	wood
E.I.S. HOLDING GmbH	Fournier RF 5 B “Sperber”	wood
E.I.S. HOLDING GmbH	SFS 31 “Milan”	wood
EICHELSDOERFER GMBH	KIWI	composite
EVEKTOR, SPOL. S R.O.	L 13 SDL Vivat	metal
EVEKTOR, SPOL. S R.O.	L 13 SDM Vivat	metal
EVEKTOR, SPOL. S R.O.	L 13 SE Vivat	metal
EVEKTOR, SPOL. S R.O.	L 13 SEH Vivat	metal
EVEKTOR, SPOL. S R.O.	L 13 SL Vivat	metal
EVEKTOR, SPOL. S R.O.	L 13 SW Vivat	metal
FIBERGLAS TECHNIK R. LINDNER	G 103 C TWIN III SL	composite
FISCHER UND ENTWICKLUNGEN	ASTIR CS 77 TOP	composite
FISCHER UND ENTWICKLUNGEN	ASTIR CS Jeans TOP	composite
FISCHER UND ENTWICKLUNGEN	ASTIR CS TOP	composite
FISCHER UND ENTWICKLUNGEN	ASW 20 TOP	composite
FISCHER UND ENTWICKLUNGEN	ASW 20B TOP	composite
FISCHER UND ENTWICKLUNGEN	ASW 20BL TOP	composite

GROUP 4 POWERED SAILPLANES		
TC Holder	**Model**	**Type of structure**
FISCHER UND ENTWICKLUNGEN	ASW 20C TOP	composite
FISCHER UND ENTWICKLUNGEN	ASW 20CL TOP	composite
FISCHER UND ENTWICKLUNGEN	ASW 20L TOP	composite
FISCHER UND ENTWICKLUNGEN	ASW 24 TOP	composite
FISCHER UND ENTWICKLUNGEN	Standard Cirrus B TOP	composite
FISCHER UND ENTWICKLUNGEN	Standard Cirrus TOP	composite
FOURNIER, RENE	RF 9	wood
GANTENBRINK, BRUNO	Eta	composite
GROB AIRCRAFT AG	G109	composite
GROB AIRCRAFT AG	G109 B	composite
HB-FLUGTECHNIK GMBH	HB 21	metal-tube, wood
HB-FLUGTECHNIK GMBH	HB 21 V1	metal-tube, wood
HB-FLUGTECHNIK GMBH	HB 21 V2	metal-tube, wood
HB-FLUGTECHNIK GMBH	HB 21/2400	metal-tube, wood
HB-FLUGTECHNIK GMBH	HB 21/2400 B	metal-tube, wood
HB-FLUGTECHNIK GMBH	HB 23/2400	metal-tube, wood
HB-FLUGTECHNIK GMBH	HB 23/2400 Scanliner	metal-tube, wood
HB-FLUGTECHNIK GMBH	HB 23/2400 SP	metal-tube, wood
HB-FLUGTECHNIK GMBH	HB 23/2400 V2	metal-tube, wood
HPH SPOL SRO	Glasflügel 304 eS	composite
HPH SPOL SRO	Glasflügel 304 MS	composite
KORFF LUFTFAHRT	Taifun 17 E	composite
KORFF LUFTFAHRT	Taifun 17 E II	composite
LANGE AVIATION GMBH	E1 Antares	composite
M & D FLUGZEUGBAU GMBH	AVO 68 - R "Samburo"	metal-tube, wood

GROUP 4 POWERED SAILPLANES		
TC Holder	**Model**	**Type of structure**
M & D FLUGZEUGBAU GMBH	AVO 68 - R 100 "Samburo"	metal-tube, wood
M & D FLUGZEUGBAU GMBH	AVO 68 - R 115 "Samburo"	metal-tube, wood
M & D FLUGZEUGBAU GMBH	AVO 68 - s "Samburo"	metal-tube, wood
M & D FLUGZEUGBAU GMBH	AVO 68 - v "Samburo"	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 25 A	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 25 B	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 25 C	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 25 D	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 25 E	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 25 K	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 28 A “Tandem-Falke”	metal-tube, wood
SCHEIBE AIRCRAFT GMBH	SF 36 A	composite
SCHEIBE AIRCRAFT GMBH	SF 36 R	composite
SCHEMPP HIRTH FLUGZEUGBAU	ARCUS M	composite
SCHEMPP HIRTH FLUGZEUGBAU	Arcus T	composite
SCHEMPP HIRTH FLUGZEUGBAU	Discus bM	composite
SCHEMPP HIRTH FLUGZEUGBAU	Discus bT	composite
SCHEMPP HIRTH FLUGZEUGBAU	Discus-2cFES	composite
SCHEMPP HIRTH FLUGZEUGBAU	Discus-2cT	composite
SCHEMPP HIRTH FLUGZEUGBAU	Discus-2T	composite
SCHEMPP HIRTH FLUGZEUGBAU	Duo Discus T	composite
SCHEMPP HIRTH FLUGZEUGBAU	Janus CM	composite
SCHEMPP HIRTH FLUGZEUGBAU	Janus CT	composite

GROUP 4 POWERED SAILPLANES		
TC Holder	**Model**	**Type of structure**
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-2M	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-3DM	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-3DT	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-3T	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-4DM	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-4DT	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-4M	composite
SCHEMPP HIRTH FLUGZEUGBAU	Nimbus-4T	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus bT	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus cM	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus cT	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus-2cM	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus-2cT	composite
SCHEMPP HIRTH FLUGZEUGBAU	Ventus-3T	composite
SPORTINE AVIACIJA IR KO	LAK-17AT	composite
SPORTINE AVIACIJA IR KO	LAK-17B FES	composite
SPORTINE AVIACIJA IR KO	LAK-19T	composite
STEMME AG	S6	composite
STEMME AG	S6-RT	composite
STEMME AG	Stemme S10	composite
STEMME AG	Stemme S10-V	composite
STEMME AG	Stemme S10-VT	composite
STEMME AG	Stemme S12	composite
TECHNOFLUG LEICHTFLUGZEUGBAU	CARAT	composite
TECHNOFLUG LEICHTFLUGZEUGBAU	Piccolo	composite

GROUP 4 POWERED SAILPLANES		
TC Holder	**Model**	**Type of structure**
TECHNOFLUG LEICHTFLUGZEUGBAU	Piccolo B	composite
WITHOUT TC HOLDER - ORPHANED	PIK 20 E II F	composite
WITHOUT TC HOLDER - ORPHANED	PIK 30	composite
WITHOUT TC HOLDER - ORPHANED	PIK-20 E	composite
WITHOUT TC HOLDER - ORPHANED	PIK-20 E II	composite
WITHOUT TC HOLDER - ORPHANED	RF-5 AJ-1 Serrania	wood
ZAKLAD SZYBOWCOWY JEZOW	SZD-45A "Ogar"	composite

GROUP 4 GAS BALLOONS	
TC Holder	**Model**
BALLONBAU WÖRNER GMBH	K-STU/1000
BALLONBAU WÖRNER GMBH	K-STU/1260
BALLONBAU WÖRNER GMBH	K-STU/1680
BALLONBAU WÖRNER GMBH	K-STU/300
BALLONBAU WÖRNER GMBH	K-STU/630
BALLONBAU WÖRNER GMBH	K-STU/780
BALLONBAU WÖRNER GMBH	K-STU/945
BALLONBAU WÖRNER GMBH	NL-STU /1000
BALLONBAU WÖRNER GMBH	NL-STU/280
BALLONBAU WÖRNER GMBH	NL-STU/380
BALLONBAU WÖRNER GMBH	NL-STU/510
BALLONBAU WÖRNER GMBH	NL-STU/640
BALLONBAU WÖRNER GMBH	NL-STU/840
CAMERON BALLOONS LIMITED	GB 1000
LINDSTRAND TECHNOLOGIES LTD.	105G
LINDSTRAND TECHNOLOGIES LTD.	14M
LINDSTRAND TECHNOLOGIES LTD.	203M
LINDSTRAND TECHNOLOGIES LTD.	77M
WITHOUT TC HOLDER — ORPHANED	K-1050/3-Ri
WITHOUT TC HOLDER — ORPHANED	K-1260/3-Ri
WITHOUT TC HOLDER — ORPHANED	K-1680/4-Ri
WITHOUT TC HOLDER — ORPHANED	K-630/1-Ri
WITHOUT TC HOLDER — ORPHANED	K-780/2-Ri
WITHOUT TC HOLDER — ORPHANED	K-945/2-Ri
AERONAUTICAL CENTER AUGUR	AL-30

GROUP 4 GAS BALLOONS	
TC Holder	**Model**
AEROPHILE SAS	AEROPHILE 5500
BALLONBAU WÖRNER GMBH	FK-5500/STU
BALLONBAU WÖRNER GMBH	FKP-STU/280
BALLONBAU WÖRNER GMBH	FKP-STU/380
BALLONBAU WÖRNER GMBH	FKP-STU/510
BALLONBAU WÖRNER GMBH	FK-STU/280
LINDSTRAND TECHNOLOGIES LTD.	203T
LINDSTRAND TECHNOLOGIES LTD.	9T
LINDSTRAND TECHNOLOGIES LTD.	LBL 203P

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
AEROSTAR INTERNATIONAL	CELL
AEROSTAR INTERNATIONAL	RX-6
AEROSTAR INTERNATIONAL	RX-7
AEROSTAR INTERNATIONAL	RX-8
AEROSTAR INTERNATIONAL	RX-9
AEROSTAR INTERNATIONAL	RXS-8
AEROSTAR INTERNATIONAL	S-49A
AEROSTAR INTERNATIONAL	S-52A
AEROSTAR INTERNATIONAL	S-53A
AEROSTAR INTERNATIONAL	S-55A
AEROSTAR INTERNATIONAL	S-57A
AEROSTAR INTERNATIONAL	S-57S
AEROSTAR INTERNATIONAL	S-60A
AEROSTAR INTERNATIONAL	S-66A
AEROSTAR INTERNATIONAL	S-71A
AEROSTAR INTERNATIONAL	S-77A
AEROSTAR INTERNATIONAL	W100LB
BALLONS CHAIZE	CS 1600 F12
BALLONS CHAIZE	CS 1600 F24
BALLONS CHAIZE	CS 1800 F12
BALLONS CHAIZE	CS 1800 F24
BALLONS CHAIZE	CS 2000 F12
BALLONS CHAIZE	CS 2000 F24
BALLONS CHAIZE	CS 2200 F12
BALLONS CHAIZE	CS 2200 F16

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
BALLONS CHAIZE	CS 2200 F24
BALLONS CHAIZE	CS 2200 F32
BALLONS CHAIZE	CS 3000 F16
BALLONS CHAIZE	CS 3000 F32
BALLONS CHAIZE	CS 4000 F16
BALLONS CHAIZE	CS 4000 F32
BALLONS CHAIZE	DC 1800 F16
BALLONS CHAIZE	DC 2000 F16
BALLONS CHAIZE	DC 2200 F16
BALLONS CHAIZE	DC-Type
BALLONS CHAIZE	JZ 18 F12
BALLONS CHAIZE	JZ 18 F24
BALLONS CHAIZE	JZ 20 F12
BALLONS CHAIZE	JZ 20 F24
BALLONS CHAIZE	JZ 22 F12
BALLONS CHAIZE	JZ 22 F24
BALLONS CHAIZE	JZ 25 F12
BALLONS CHAIZE	JZ 25 F16
BALLONS CHAIZE	JZ 25 F24
BALLONS CHAIZE	JZ 25 F32
BALLONS CHAIZE	JZ 30 F16
BALLONS CHAIZE	JZ 30 F32
BALLONS CHAIZE	JZ 35 F16
BALLONS CHAIZE	JZ 35 F32
BALLONS CHAIZE	JZ 40 F16

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
BALLONS CHAIZE	JZ 40 F32
BALLONS CHAIZE	JZX 18 F12
BALLONS CHAIZE	JZX 18 F24
BALLONS CHAIZE	JZX 20 F12
BALLONS CHAIZE	JZX 20 F24
BALLONS CHAIZE	JZX 22 F12
BALLONS CHAIZE	JZX 22 F24
BALLONS CHAIZE	JZX 25 F12
BALLONS CHAIZE	JZX 25 F16
BALLONS CHAIZE	JZX 25 F24
BALLONS CHAIZE	JZX 25 F32
BALLONS CHAIZE	JZX 30 F16
BALLONS CHAIZE	JZX 30 F32
BALLONS CHAIZE	JZX 30 F16
BALLONS CHAIZE	JZX 30 F32
BALLONS CHAIZE	JZX 35 F16
BALLONS CHAIZE	JZX 35 F32
BALLONS CHAIZE	JZX 35 F32
BALLONS CHAIZE	JZX 40 F16
BALLONS CHAIZE	JZX 40 F32
BALLONS LIBERT S.P.R.L.	L12-2600
BALLONS LIBERT S.P.R.L.	L12-3000
BALLONS LIBERT S.P.R.L.	L1800
BALLONS LIBERT S.P.R.L.	L2200
BALLONS LIBERT S.P.R.L.	L2600

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
BALLONS LIBERT S.P.R.L.	L3000
BALLONS LIBERT S.P.R.L.	L3000+
BALLONS LIBERT S.P.R.L.	L3400
BALLONS LIBERT S.P.R.L.	L4000+
BALLONS LIBERT S.P.R.L.	L4500
BALLONS LIBERT S.P.R.L.	L5000
BALLONS LIBERT S.P.R.L.	LC Replica
BALLONS LIBERT S.P.R.L.	LC2000
BALLONSERVICE UND TECHNIK	Schön-Mars
BALLONSERVICE UND TECHNIK	Schön-Neptun
BALLONSERVICE UND TECHNIK	Schön-Saturn
BALLONSERVICE UND TECHNIK	Schön-Venus
BALÓNY KUBÍČEK SPOL. S.R.O.	AB 2
BALÓNY KUBÍČEK SPOL. S.R.O.	AB 2a
BALÓNY KUBÍČEK SPOL. S.R.O.	AB 8
BALÓNY KUBÍČEK SPOL. S.R.O.	AB 8 N30
BALÓNY KUBÍČEK SPOL. S.R.O.	AB N22
BALÓNY KUBÍČEK SPOL. S.R.O.	AB N30
BALÓNY KUBÍČEK SPOL. S.R.O.	AB N22
BALÓNY KUBÍČEK SPOL. S.R.O.	AB N30
BALÓNY KUBÍČEK SPOL. S.R.O.	AB O22
BALÓNY KUBÍČEK SPOL. S.R.O.	BALL
BALÓNY KUBÍČEK SPOL. S.R.O.	BB D-Type
BALÓNY KUBÍČEK SPOL. S.R.O.	BB ED-Type
BALÓNY KUBÍČEK SPOL. S.R.O.	BB E-Type

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
BALÓNY KUBÍČEK SPOL. S.R.O.	BB GP-Type
BALÓNY KUBÍČEK SPOL. S.R.O.	BB N-Type
BALÓNY KUBÍČEK SPOL. S.R.O.	BB O-Type
BALÓNY KUBÍČEK SPOL. S.R.O.	BB P-Type
BALÓNY KUBÍČEK SPOL. S.R.O.	BB Series
BALÓNY KUBÍČEK SPOL. S.R.O.	BB XR-Type
BALÓNY KUBÍČEK SPOL. S.R.O.	BB Z-Type
BALÓNY KUBÍČEK SPOL. S.R.O.	BB100Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB12
BALÓNY KUBÍČEK SPOL. S.R.O.	BB120P
BALÓNY KUBÍČEK SPOL. S.R.O.	BB142P
BALÓNY KUBÍČEK SPOL. S.R.O.	BB 16
BALÓNY KUBÍČEK SPOL. S.R.O.	BB17GP
BALÓNY KUBÍČEK SPOL. S.R.O.	BB17XR
BALÓNY KUBÍČEK SPOL. S.R.O.	BB20
BALÓNY KUBÍČEK SPOL. S.R.O.	BB20E
BALÓNY KUBÍČEK SPOL. S.R.O.	BB20GP
BALÓNY KUBÍČEK SPOL. S.R.O.	BB20XR
BALÓNY KUBÍČEK SPOL. S.R.O.	BB22
BALÓNY KUBÍČEK SPOL. S.R.O.	BB22E
BALÓNY KUBÍČEK SPOL. S.R.O.	BB20GP
BALÓNY KUBÍČEK SPOL. S.R.O.	BB20XR
BALÓNY KUBÍČEK SPOL. S.R.O.	BB22
BALÓNY KUBÍČEK SPOL. S.R.O.	BB22E
BALÓNY KUBÍČEK SPOL. S.R.O.	BB22N

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
BALÓNY KUBÍČEK SPOL. S.R.O.	BB22XR
BALÓNY KUBÍČEK SPOL. S.R.O.	BB22Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB26
BALÓNY KUBÍČEK SPOL. S.R.O.	BB26E
BALÓNY KUBÍČEK SPOL. S.R.O.	BB26N
BALÓNY KUBÍČEK SPOL. S.R.O.	BB26XR
BALÓNY KUBÍČEK SPOL. S.R.O.	BB26Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB30N
BALÓNY KUBÍČEK SPOL. S.R.O.	BB30XR
BALÓNY KUBÍČEK SPOL. S.R.O.	BB30Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB34Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB37N
BALÓNY KUBÍČEK SPOL. S.R.O.	BB37Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB40Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB42Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB45N
BALÓNY KUBÍČEK SPOL. S.R.O.	BB45Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB51Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB60N
BALÓNY KUBÍČEK SPOL. S.R.O.	BB60Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB70Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB85Z
BALÓNY KUBÍČEK SPOL. S.R.O.	BB9
BALÓNY KUBÍČEK SPOL. S.R.O.	BEAR
BALÓNY KUBÍČEK SPOL. S.R.O.	BEMB

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
BALÓNY KUBÍČEK SPOL. S.R.O.	BURKER KING
BALÓNY KUBÍČEK SPOL. S.R.O.	CUBE
BALÓNY KUBÍČEK SPOL. S.R.O.	DHL
BALÓNY KUBÍČEK SPOL. S.R.O.	FISH
BALÓNY KUBÍČEK SPOL. S.R.O.	FORKLIFT
BALÓNY KUBÍČEK SPOL. S.R.O.	GNOME
BALÓNY KUBÍČEK SPOL. S.R.O.	HEART
BALÓNY KUBÍČEK SPOL. S.R.O.	ICE
BALÓNY KUBÍČEK SPOL. S.R.O.	JAG
BALÓNY KUBÍČEK SPOL. S.R.O.	JAGER
BALÓNY KUBÍČEK SPOL. S.R.O.	JAGER 28
BALÓNY KUBÍČEK SPOL. S.R.O.	JUPOL
BALÓNY KUBÍČEK SPOL. S.R.O.	KATZENKOPF
BALÓNY KUBÍČEK SPOL. S.R.O.	KRIGL
BALÓNY KUBÍČEK SPOL. S.R.O.	MONTGOLFIERE
BALÓNY KUBÍČEK SPOL. S.R.O.	PHARE
BALÓNY KUBÍČEK SPOL. S.R.O.	RABBIT
BALÓNY KUBÍČEK SPOL. S.R.O.	REPLIKA
BALÓNY KUBÍČEK SPOL. S.R.O.	SANTA
BALÓNY KUBÍČEK SPOL. S.R.O.	SHIP
BALÓNY KUBÍČEK SPOL. S.R.O.	SILO
BALÓNY KUBÍČEK SPOL. S.R.O.	SKYBALLS
BALÓNY KUBÍČEK SPOL. S.R.O.	VOSTOK
BALÓNY KUBÍČEK SPOL. S.R.O.	WERA
BALÓNY KUBÍČEK SPOL. S.R.O.	WURST

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	105-24
CAMERON BALLOONS LIMITED	105A
CAMERON BALLOONS LIMITED	120-24
CAMERON BALLOONS LIMITED	120A
CAMERON BALLOONS LIMITED	140-24
CAMERON BALLOONS LIMITED	140A
CAMERON BALLOONS LIMITED	150A
CAMERON BALLOONS LIMITED	160-24
CAMERON BALLOONS LIMITED	160A
CAMERON BALLOONS LIMITED	17A
CAMERON BALLOONS LIMITED	180-24
CAMERON BALLOONS LIMITED	180A
CAMERON BALLOONS LIMITED	200-24
CAMERON BALLOONS LIMITED	210A
CAMERON BALLOONS LIMITED	21A
CAMERON BALLOONS LIMITED	220-24
CAMERON BALLOONS LIMITED	240-24
CAMERON BALLOONS LIMITED	240A
CAMERON BALLOONS LIMITED	25A
CAMERON BALLOONS LIMITED	260-24
CAMERON BALLOONS LIMITED	260A
CAMERON BALLOONS LIMITED	26-16
CAMERON BALLOONS LIMITED	300A
CAMERON BALLOONS LIMITED	31-24
CAMERON BALLOONS LIMITED	315A

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	317-24
CAMERON BALLOONS LIMITED	31A
CAMERON BALLOONS LIMITED	4 Pack-90 (Four Pack-1)
CAMERON BALLOONS LIMITED	400-28
CAMERON BALLOONS LIMITED	400A
CAMERON BALLOONS LIMITED	42A
CAMERON BALLOONS LIMITED	500-28
CAMERON BALLOONS LIMITED	56-24
CAMERON BALLOONS LIMITED	56A
CAMERON BALLOONS LIMITED	56B
CAMERON BALLOONS LIMITED	65-24
CAMERON BALLOONS LIMITED	69A
CAMERON BALLOONS LIMITED	70-16
CAMERON BALLOONS LIMITED	77-24
CAMERON BALLOONS LIMITED	77A
CAMERON BALLOONS LIMITED	77B
CAMERON BALLOONS LIMITED	80-16
CAMERON BALLOONS LIMITED	90-24
CAMERON BALLOONS LIMITED	90A
CAMERON BALLOONS LIMITED	90B
CAMERON BALLOONS LIMITED	A Type Cloudhopper Series
CAMERON BALLOONS LIMITED	A Type Series
CAMERON BALLOONS LIMITED	A-105
CAMERON BALLOONS LIMITED	A-120
CAMERON BALLOONS LIMITED	A-140

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	A-160
CAMERON BALLOONS LIMITED	A-180
CAMERON BALLOONS LIMITED	A-200
CAMERON BALLOONS LIMITED	A-210
CAMERON BALLOONS LIMITED	A-250
CAMERON BALLOONS LIMITED	A-275
CAMERON BALLOONS LIMITED	A-300
CAMERON BALLOONS LIMITED	A-315
CAMERON BALLOONS LIMITED	A-340
CAMERON BALLOONS LIMITED	A-340HL
CAMERON BALLOONS LIMITED	A-375
CAMERON BALLOONS LIMITED	A-400
CAMERON BALLOONS LIMITED	A-415
CAMERON BALLOONS LIMITED	A-425LW
CAMERON BALLOONS LIMITED	A-450LW
CAMERON BALLOONS LIMITED	A-500LW
CAMERON BALLOONS LIMITED	A-530
CAMERON BALLOONS LIMITED	A-530LW
CAMERON BALLOONS LIMITED	AML-105
CAMERON BALLOONS LIMITED	Andrelon Bottle (Bottle-8)
CAMERON BALLOONS LIMITED	Apple-120
CAMERON BALLOONS LIMITED	Apple-90
CAMERON BALLOONS LIMITED	AX10-150 S2
CAMERON BALLOONS LIMITED	AX10-160 S1
CAMERON BALLOONS LIMITED	AX10-160 S2

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	AX10-160Z
CAMERON BALLOONS LIMITED	AX10-180 S1
CAMERON BALLOONS LIMITED	AX10-180 S2
CAMERON BALLOONS LIMITED	AX10-210 S2
CAMERON BALLOONS LIMITED	AX11-225 S2
CAMERON BALLOONS LIMITED	AX11-250 S2
CAMERON BALLOONS LIMITED	AX4-31Z
CAMERON BALLOONS LIMITED	AX5-42 S1
CAMERON BALLOONS LIMITED	AX5-42Bolt
CAMERON BALLOONS LIMITED	AX56-Series 1/SP1
CAMERON BALLOONS LIMITED	AX6-56 S1
CAMERON BALLOONS LIMITED	AX6-56A
CAMERON BALLOONS LIMITED	AX6-56Bolt
CAMERON BALLOONS LIMITED	AX6-56Z
CAMERON BALLOONS LIMITED	AX7-65 S1
CAMERON BALLOONS LIMITED	AX7-65Bolt
CAMERON BALLOONS LIMITED	AX7-65Z
CAMERON BALLOONS LIMITED	AX7-77 S1
CAMERON BALLOONS LIMITED	AX7-77A
CAMERON BALLOONS LIMITED	AX7-77Bolt
CAMERON BALLOONS LIMITED	AX7-77Z
CAMERON BALLOONS LIMITED	AX8-105 S1
CAMERON BALLOONS LIMITED	AX8-105 S2
CAMERON BALLOONS LIMITED	AX8-105Z
CAMERON BALLOONS LIMITED	AX8-84 S1

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	AX8-90 S1
CAMERON BALLOONS LIMITED	AX8-90 S2
CAMERON BALLOONS LIMITED	AX9-120 S1
CAMERON BALLOONS LIMITED	AX9-120 S2
CAMERON BALLOONS LIMITED	AX9-140 S2
CAMERON BALLOONS LIMITED	B Type Series
CAMERON BALLOONS LIMITED	Ball-70
CAMERON BALLOONS LIMITED	Ball-77 (Ball-4)
CAMERON BALLOONS LIMITED	Baltika-77 (Cylinder-14)
CAMERON BALLOONS LIMITED	Battery LR2 (Cylinder-6)
CAMERON BALLOONS LIMITED	Bear-72
CAMERON BALLOONS LIMITED	Bearskin
CAMERON BALLOONS LIMITED	Beer Crate-120 (Box-20)
CAMERON BALLOONS LIMITED	Bertie Basset-90 (St. Fig.10)
CAMERON BALLOONS LIMITED	Bibendum-110 (St. Fig.-12)
CAMERON BALLOONS LIMITED	Bic Chic-90 (Figure-6)
CAMERON BALLOONS LIMITED	Bottle-100 (Bottle-2)
CAMERON BALLOONS LIMITED	Bottle-77 (Bottle-6)
CAMERON BALLOONS LIMITED	Bowler-90 (Hat-1)
CAMERON BALLOONS LIMITED	Bradford/Bingley-90 (Box-9)
CAMERON BALLOONS LIMITED	Branderburger Tor (Box-3)
CAMERON BALLOONS LIMITED	Britannia Pig-90 (Quadruped-8)
CAMERON BALLOONS LIMITED	Buddy-90 (Figure-7)
CAMERON BALLOONS LIMITED	Bulb-65 Light (Bulb-1)
CAMERON BALLOONS LIMITED	Bull-110 (Quadruped-12)

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	Bunch-100
CAMERON BALLOONS LIMITED	Bunny-90 (Standing Figure-7)
CAMERON BALLOONS LIMITED	Burger King (Burger-1)
CAMERON BALLOONS LIMITED	Bus-90
CAMERON BALLOONS LIMITED	C Type Series
CAMERON BALLOONS LIMITED	C-100
CAMERON BALLOONS LIMITED	C-60
CAMERON BALLOONS LIMITED	C-70
CAMERON BALLOONS LIMITED	C-80
CAMERON BALLOONS LIMITED	C-90
CAMERON BALLOONS LIMITED	Cabin
CAMERON BALLOONS LIMITED	Calling Card-110 (Box-10)
CAMERON BALLOONS LIMITED	CameronBox 105 (Telef.häuschen)
CAMERON BALLOONS LIMITED	Can-120 (Cylinder-16)
CAMERON BALLOONS LIMITED	Can-60 (Barrel-60)
CAMERON BALLOONS LIMITED	Can-77 (Cylinder-10)
CAMERON BALLOONS LIMITED	Carrots-80
CAMERON BALLOONS LIMITED	Cart (Box-6)
CAMERON BALLOONS LIMITED	Chateau-84 (House-1)
CAMERON BALLOONS LIMITED	Cheese-82 (Horizontal Cylinder)
CAMERON BALLOONS LIMITED	Chicken-105 (Bird-2)
CAMERON BALLOONS LIMITED	Cider Bottle-120 (Cylinder- 9)
CAMERON BALLOONS LIMITED	Clown Standing (Figure-6)
CAMERON BALLOONS LIMITED	Club-90
CAMERON BALLOONS LIMITED	Cockerel-130 (Bird-7)

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	Coffee Jug-90 (Jug-1)
CAMERON BALLOONS LIMITED	Cola Can-90 (Cylinder-12)
CAMERON BALLOONS LIMITED	Colt 'Bullet' Type
CAMERON BALLOONS LIMITED	Colt 56 Satzenbrau Bottle
CAMERON BALLOONS LIMITED	Colt A Type
CAMERON BALLOONS LIMITED	Colt Ariel Bottle (Bottle-1)
CAMERON BALLOONS LIMITED	Colt Beer Glass
CAMERON BALLOONS LIMITED	Colt Beetle-105 (Car-3)
CAMERON BALLOONS LIMITED	Colt Bottle-10
CAMERON BALLOONS LIMITED	Colt Bottle-11
CAMERON BALLOONS LIMITED	Colt Bottle-12
CAMERON BALLOONS LIMITED	Colt Bottle-13
CAMERON BALLOONS LIMITED	Colt Bottle-14
CAMERON BALLOONS LIMITED	Colt Bottle-90 (Bottle-5)
CAMERON BALLOONS LIMITED	Colt Can-110 (Cylinder -15)
CAMERON BALLOONS LIMITED	Colt Clown (Standing Figure-2)
CAMERON BALLOONS LIMITED	Colt Cylinder One
CAMERON BALLOONS LIMITED	Colt Film Can (Cylinder-5)
CAMERON BALLOONS LIMITED	Colt Flying Book (Box-2)
CAMERON BALLOONS LIMITED	Colt Flying Head
CAMERON BALLOONS LIMITED	Colt Flying Hut
CAMERON BALLOONS LIMITED	Colt Flying Jeans
CAMERON BALLOONS LIMITED	Colt Flying Kiwi
CAMERON BALLOONS LIMITED	Colt Flying Lager (Bottle 2)
CAMERON BALLOONS LIMITED	Colt Flying Mitt

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	Colt Flying Open Book (Box-5)
CAMERON BALLOONS LIMITED	Colt Flying Pig (Quadruped-6)
CAMERON BALLOONS LIMITED	Colt Flying Shuttlecock (Cone-
CAMERON BALLOONS LIMITED	Colt Flying Whiskey (Bottle 3)
CAMERON BALLOONS LIMITED	Colt Flying Yacht
CAMERON BALLOONS LIMITED	Colt Golf Ball-90 (Ball-2)
CAMERON BALLOONS LIMITED	Colt Jumbo-2
CAMERON BALLOONS LIMITED	Colt Mickey Mouse (Wimi-3)
CAMERON BALLOONS LIMITED	Colt Pils Bottle (Bottle-12)
CAMERON BALLOONS LIMITED	Colt Santa Claus (St. Fig.-4)
CAMERON BALLOONS LIMITED	Colt World-90
CAMERON BALLOONS LIMITED	Condom-105 (Cylinder-18)
CAMERON BALLOONS LIMITED	Cooling Tower-80 (Cylinder-2)
CAMERON BALLOONS LIMITED	Cork-105
CAMERON BALLOONS LIMITED	Cork-116
CAMERON BALLOONS LIMITED	Cork-82
CAMERON BALLOONS LIMITED	Cow-105 (Quadruped-2)
CAMERON BALLOONS LIMITED	Cow-110 (Quadruped-5)
CAMERON BALLOONS LIMITED	Cube-105
CAMERON BALLOONS LIMITED	Cup-110 (Urn-1)
CAMERON BALLOONS LIMITED	Cup-90 (F.A.)
CAMERON BALLOONS LIMITED	Dinosaur-80 (Quadruped-1)
CAMERON BALLOONS LIMITED	Dodo-105 (Bird 8)
CAMERON BALLOONS LIMITED	Doll-105 Standing (Figure-8)
CAMERON BALLOONS LIMITED	Doll-90 (Cylinder-3)

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	Donald-97 (Head-10)
CAMERON BALLOONS LIMITED	Double Cow -110 (Quadruped-10)
CAMERON BALLOONS LIMITED	Douglas-110 (Figure-5)
CAMERON BALLOONS LIMITED	Dragon (Quadruped-4)
CAMERON BALLOONS LIMITED	Drop-180
CAMERON BALLOONS LIMITED	Drop-95
CAMERON BALLOONS LIMITED	Dude-90
CAMERON BALLOONS LIMITED	Eagle -110 (Bird-5)
CAMERON BALLOONS LIMITED	Eagle-95 (Bird-4)
CAMERON BALLOONS LIMITED	EB-90 (Glass-3)
CAMERON BALLOONS LIMITED	Egg-120
CAMERON BALLOONS LIMITED	Egg-65
CAMERON BALLOONS LIMITED	Egg-89
CAMERON BALLOONS LIMITED	Elephant-77
CAMERON BALLOONS LIMITED	F.R. Ball
CAMERON BALLOONS LIMITED	Film Can-90 (Cylinder-7)
CAMERON BALLOONS LIMITED	Fire Truck-100
CAMERON BALLOONS LIMITED	Fire-90 (Cylinder-11)
CAMERON BALLOONS LIMITED	Flame-95
CAMERON BALLOONS LIMITED	Flying Beer Glass (Cylinder-4)
CAMERON BALLOONS LIMITED	Flying Castle
CAMERON BALLOONS LIMITED	Flying Coffee Jar (Cylinder-8)
CAMERON BALLOONS LIMITED	Flying Cow-110 (Quadruped-11)
CAMERON BALLOONS LIMITED	Flying Ice Cream Cone (Cone-2)
CAMERON BALLOONS LIMITED	Flying Lager Bottle (Bottle-4)

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	Flying Piggy Bank (House-2)
CAMERON BALLOONS LIMITED	Flying Windmill
CAMERON BALLOONS LIMITED	Football-120 (Sphere-120)
CAMERON BALLOONS LIMITED	Fork Lift-105
CAMERON BALLOONS LIMITED	Freddo-105 (Standing Figure-13)
CAMERON BALLOONS LIMITED	Frog-90 (Quadruped-7)
CAMERON BALLOONS LIMITED	Furness 56 Building
CAMERON BALLOONS LIMITED	Golf Ball-76 (Ball-1)
CAMERON BALLOONS LIMITED	GosserMug90/Bierkrug90
CAMERON BALLOONS LIMITED	GP-65
CAMERON BALLOONS LIMITED	GP-70
CAMERON BALLOONS LIMITED	G-Rail-90 (Standing Figure 16)
CAMERON BALLOONS LIMITED	Grand Illusion (Figure-3)
CAMERON BALLOONS LIMITED	Graz Box-110 (Box-19)
CAMERON BALLOONS LIMITED	Grolsch-105 (Bottle-7)
CAMERON BALLOONS LIMITED	H-20
CAMERON BALLOONS LIMITED	H-24
CAMERON BALLOONS LIMITED	H-34
CAMERON BALLOONS LIMITED	Hard Hat-90 (Hat-2)
CAMERON BALLOONS LIMITED	Harley-78 (Motor Bike-1)
CAMERON BALLOONS LIMITED	Head 2-120
CAMERON BALLOONS LIMITED	Head One-105
CAMERON BALLOONS LIMITED	Head-90 (Head-15)
CAMERON BALLOONS LIMITED	Heart-100
CAMERON BALLOONS LIMITED	Heart-120

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	Helmet-120 (Head-16)
CAMERON BALLOONS LIMITED	Hex Glass-84 (Glass-2)
CAMERON BALLOONS LIMITED	Home Special-105 (House-3)
CAMERON BALLOONS LIMITED	Horse-90 (Quadruped-3)
CAMERON BALLOONS LIMITED	House-60
CAMERON BALLOONS LIMITED	Ikea-120 (Heart/Box-120)
CAMERON BALLOONS LIMITED	Inverted Balloon-105
CAMERON BALLOONS LIMITED	Inverted Balloon-78
CAMERON BALLOONS LIMITED	Katalog-82 (Box-4)
CAMERON BALLOONS LIMITED	Kindernet Dog-100 (St. Fig.-14)
CAMERON BALLOONS LIMITED	Kookaburra-120 (Bird-6)
CAMERON BALLOONS LIMITED	Krush Bottle-106 (Bottle-7)
CAMERON BALLOONS LIMITED	L Type Series
CAMERON BALLOONS LIMITED	LBL 105A
CAMERON BALLOONS LIMITED	LBL 105B
CAMERON BALLOONS LIMITED	LBL 120A
CAMERON BALLOONS LIMITED	LBL 140A
CAMERON BALLOONS LIMITED	LBL 150A
CAMERON BALLOONS LIMITED	LBL 160A
CAMERON BALLOONS LIMITED	LBL 180A
CAMERON BALLOONS LIMITED	LBL 210A
CAMERON BALLOONS LIMITED	LBL 210S
CAMERON BALLOONS LIMITED	LBL 21A
CAMERON BALLOONS LIMITED	LBL 240A
CAMERON BALLOONS LIMITED	LBL 25A

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	LBL 260A
CAMERON BALLOONS LIMITED	LBL 260S
CAMERON BALLOONS LIMITED	LBL 310A
CAMERON BALLOONS LIMITED	LBL 317A
CAMERON BALLOONS LIMITED	LBL 317S
CAMERON BALLOONS LIMITED	LBL 31A
CAMERON BALLOONS LIMITED	LBL 330A
CAMERON BALLOONS LIMITED	LBL 35A
CAMERON BALLOONS LIMITED	LBL 360A
CAMERON BALLOONS LIMITED	LBL 400A
CAMERON BALLOONS LIMITED	LBL 400C
CAMERON BALLOONS LIMITED	LBL 425A
CAMERON BALLOONS LIMITED	LBL 42A
CAMERON BALLOONS LIMITED	LBL 450A
CAMERON BALLOONS LIMITED	LBL 48L
CAMERON BALLOONS LIMITED	LBL 500A
CAMERON BALLOONS LIMITED	LBL 500C
CAMERON BALLOONS LIMITED	LBL 56A
CAMERON BALLOONS LIMITED	LBL 56B
CAMERON BALLOONS LIMITED	LBL 600C
CAMERON BALLOONS LIMITED	LBL 60A
CAMERON BALLOONS LIMITED	LBL 60X
CAMERON BALLOONS LIMITED	LBL 69A
CAMERON BALLOONS LIMITED	LBL 69B
CAMERON BALLOONS LIMITED	LBL 69X

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	LBL 77A
CAMERON BALLOONS LIMITED	LBL 77B
CAMERON BALLOONS LIMITED	LBL 77X
CAMERON BALLOONS LIMITED	LBL 90A
CAMERON BALLOONS LIMITED	LBL 90B
CAMERON BALLOONS LIMITED	LBL Armchair
CAMERON BALLOONS LIMITED	LBL Baby Bel
CAMERON BALLOONS LIMITED	LBL Bananas
CAMERON BALLOONS LIMITED	LBL Battery
CAMERON BALLOONS LIMITED	LBL Bear
CAMERON BALLOONS LIMITED	LBL Box
CAMERON BALLOONS LIMITED	LBL Bulb
CAMERON BALLOONS LIMITED	LBL Cake
CAMERON BALLOONS LIMITED	LBL Cornetto
CAMERON BALLOONS LIMITED	LBL Dog
CAMERON BALLOONS LIMITED	LBL Dreher Bottle
CAMERON BALLOONS LIMITED	LBL Drinks Can
CAMERON BALLOONS LIMITED	LBL Flowers
CAMERON BALLOONS LIMITED	LBL Flying M
CAMERON BALLOONS LIMITED	LBL Flying Pig
CAMERON BALLOONS LIMITED	LBL Four
CAMERON BALLOONS LIMITED	LBL Fruit Bottle
CAMERON BALLOONS LIMITED	LBL House
CAMERON BALLOONS LIMITED	LBL Ice Cream Cone
CAMERON BALLOONS LIMITED	LBL J and B Bottle

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	LBL Lion
CAMERON BALLOONS LIMITED	LBL Lozenge
CAMERON BALLOONS LIMITED	LBL Man
CAMERON BALLOONS LIMITED	LBL Motorbike
CAMERON BALLOONS LIMITED	LBL Newspaper
CAMERON BALLOONS LIMITED	LBL Octopus
CAMERON BALLOONS LIMITED	LBL Oriental Duck
CAMERON BALLOONS LIMITED	LBL Pharmacist
CAMERON BALLOONS LIMITED	LBL Pink Panther
CAMERON BALLOONS LIMITED	LBL Pop Can
CAMERON BALLOONS LIMITED	LBL Racing Car
CAMERON BALLOONS LIMITED	LBL RR21
CAMERON BALLOONS LIMITED	LBL Salami
CAMERON BALLOONS LIMITED	LBL Saloon Car
CAMERON BALLOONS LIMITED	LBL Stove
CAMERON BALLOONS LIMITED	LBL Sun
CAMERON BALLOONS LIMITED	LBL Syrup Bottle
CAMERON BALLOONS LIMITED	LBL Telewest Sphere
CAMERON BALLOONS LIMITED	LBL Triangle
CAMERON BALLOONS LIMITED	LBL Tulips
CAMERON BALLOONS LIMITED	Light Bulb-110 (Light Bulb-2)
CAMERON BALLOONS LIMITED	Lindstrand X Type
CAMERON BALLOONS LIMITED	Lips-90
CAMERON BALLOONS LIMITED	Loco-105 (Locomotive-1)
CAMERON BALLOONS LIMITED	LTSB-90 (Box-14)

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	Macaw-90 (Bird-1)
CAMERON BALLOONS LIMITED	Maple Leaf-95
CAMERON BALLOONS LIMITED	Mickey-90 (Wimi-1)
CAMERON BALLOONS LIMITED	Mikey-90 (Head-13)
CAMERON BALLOONS LIMITED	Minion-105 (Cylinder 19)
CAMERON BALLOONS LIMITED	Modified Sugar Box-90 (Box-21)
CAMERON BALLOONS LIMITED	Monster -110 (Head-12)
CAMERON BALLOONS LIMITED	Monster Truck-105
CAMERON BALLOONS LIMITED	Mountie-120 (Quadruped-9)
CAMERON BALLOONS LIMITED	Mug-90 (Cylinder-13)
CAMERON BALLOONS LIMITED	N-100
CAMERON BALLOONS LIMITED	N-105
CAMERON BALLOONS LIMITED	N-120
CAMERON BALLOONS LIMITED	N-120 Fox
CAMERON BALLOONS LIMITED	N120MW
CAMERON BALLOONS LIMITED	N-100SP (Robijn)
CAMERON BALLOONS LIMITED	N-133
CAMERON BALLOONS LIMITED	N-145
CAMERON BALLOONS LIMITED	N-160
CAMERON BALLOONS LIMITED	N-180
CAMERON BALLOONS LIMITED	N-210
CAMERON BALLOONS LIMITED	N-31
CAMERON BALLOONS LIMITED	N-42
CAMERON BALLOONS LIMITED	N-56
CAMERON BALLOONS LIMITED	N-65

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	N-70
CAMERON BALLOONS LIMITED	N-77
CAMERON BALLOONS LIMITED	N-90
CAMERON BALLOONS LIMITED	N-90 Nail
CAMERON BALLOONS LIMITED	N-90 Nivea
CAMERON BALLOONS LIMITED	Newspaper-90 (Cone-3)
CAMERON BALLOONS LIMITED	Nissan Micra (Car-1)
CAMERON BALLOONS LIMITED	Nudie-90 (Standing Figure-15)
CAMERON BALLOONS LIMITED	O-105
CAMERON BALLOONS LIMITED	O-120
CAMERON BALLOONS LIMITED	O-140
CAMERON BALLOONS LIMITED	O-160
CAMERON BALLOONS LIMITED	O-26
CAMERON BALLOONS LIMITED	O-31
CAMERON BALLOONS LIMITED	O-42
CAMERON BALLOONS LIMITED	O-56
CAMERON BALLOONS LIMITED	O-65
CAMERON BALLOONS LIMITED	O-77
CAMERON BALLOONS LIMITED	O-84
CAMERON BALLOONS LIMITED	O-90
CAMERON BALLOONS LIMITED	Obelix-90 (Figure-8)
CAMERON BALLOONS LIMITED	Onion-105
CAMERON BALLOONS LIMITED	Orange Box-115 (Box-17)
CAMERON BALLOONS LIMITED	Orange-120
CAMERON BALLOONS LIMITED	Otti-34

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	Pack-130 (Box-18)
CAMERON BALLOONS LIMITED	Paint Can-115 (Cylinder-17)
CAMERON BALLOONS LIMITED	Parachutist-110 (Figure-4)
CAMERON BALLOONS LIMITED	Peacock-90 (Bird-3)
CAMERON BALLOONS LIMITED	Pipe-105 (Standing Figure-9)
CAMERON BALLOONS LIMITED	PM-80 (Bottle-9)
CAMERON BALLOONS LIMITED	Pot-180 (Cylinder-20)
CAMERON BALLOONS LIMITED	Pot-90
CAMERON BALLOONS LIMITED	Printer-105 (Box-15)
CAMERON BALLOONS LIMITED	Pylon-80 (Figure-2)
CAMERON BALLOONS LIMITED	R-200
CAMERON BALLOONS LIMITED	R-210
CAMERON BALLOONS LIMITED	R-270
CAMERON BALLOONS LIMITED	R-450
CAMERON BALLOONS LIMITED	R-550
CAMERON BALLOONS LIMITED	R-77
CAMERON BALLOONS LIMITED	R-90
CAMERON BALLOONS LIMITED	Racing Car-110 (Car-4)
CAMERON BALLOONS LIMITED	Raindrop-77
CAMERON BALLOONS LIMITED	Robijn N-133
CAMERON BALLOONS LIMITED	Ronald-105 (Standing Figure-11)
CAMERON BALLOONS LIMITED	RTW-120
CAMERON BALLOONS LIMITED	Rugby-90 (Ball-3)
CAMERON BALLOONS LIMITED	Rupert Bear-90 (Standing Figure-5)
CAMERON BALLOONS LIMITED	RX-100

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	RX-105
CAMERON BALLOONS LIMITED	RX-120 Replica
CAMERON BALLOONS LIMITED	S Can-100
CAMERON BALLOONS LIMITED	S Type Series
CAMERON BALLOONS LIMITED	Sarotti-105 (Standing Figure-3)
CAMERON BALLOONS LIMITED	Saturn-110 (Sphere-110)
CAMERON BALLOONS LIMITED	Saucer-80
CAMERON BALLOONS LIMITED	Ship-90
CAMERON BALLOONS LIMITED	Shoe-90 (Shoe-1)
CAMERON BALLOONS LIMITED	Shopping Bag-120 (Box-7)
CAMERON BALLOONS LIMITED	Sign-90 (Box-11)
CAMERON BALLOONS LIMITED	Sim Card-120
CAMERON BALLOONS LIMITED	Sky-16 Series
CAMERON BALLOONS LIMITED	Sky-24 Series
CAMERON BALLOONS LIMITED	Sky-28 Series
CAMERON BALLOONS LIMITED	Skywhale-110
CAMERON BALLOONS LIMITED	Smurf-2 (Head-11)
CAMERON BALLOONS LIMITED	Snacpac-90
CAMERON BALLOONS LIMITED	Sonic-90 (Figure 1)
CAMERON BALLOONS LIMITED	Spaceship-110
CAMERON BALLOONS LIMITED	Sparkasse Box-90 (Box-12)
CAMERON BALLOONS LIMITED	Special Shape Hot Air Balloons
CAMERON BALLOONS LIMITED	Special Shape Hot Air Balloons LBL
CAMERON BALLOONS LIMITED	Sphere-105
CAMERON BALLOONS LIMITED	Sport-50

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	Sport-60
CAMERON BALLOONS LIMITED	Sport-70
CAMERON BALLOONS LIMITED	Sport-80
CAMERON BALLOONS LIMITED	Sport-90
CAMERON BALLOONS LIMITED	Sports Car-110 (Car-2)
CAMERON BALLOONS LIMITED	Standing Bear-105
CAMERON BALLOONS LIMITED	Startac-105
CAMERON BALLOONS LIMITED	Sugar Box-90 (Box-16)
CAMERON BALLOONS LIMITED	Sultan-80 (Standing Figure-1)
CAMERON BALLOONS LIMITED	Super FMG-100
CAMERON BALLOONS LIMITED	Thomas-110 (Locomotive-2)
CAMERON BALLOONS LIMITED	Thunder ‘Bolt’ Type
CAMERON BALLOONS LIMITED	Thunder A Type
CAMERON BALLOONS LIMITED	Thunder AX-Series S1
CAMERON BALLOONS LIMITED	Thunder AX-Series S2
CAMERON BALLOONS LIMITED	Thunder Forklift-90
CAMERON BALLOONS LIMITED	Thunder Z Type
CAMERON BALLOONS LIMITED	Tiger-90
CAMERON BALLOONS LIMITED	Tissue Pack-100 (Four Pack-2)
CAMERON BALLOONS LIMITED	TR-60
CAMERON BALLOONS LIMITED	TR-65
CAMERON BALLOONS LIMITED	TR-70
CAMERON BALLOONS LIMITED	TR-77
CAMERON BALLOONS LIMITED	TR-84
CAMERON BALLOONS LIMITED	TR-84S1

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	TR-84S2
CAMERON BALLOONS LIMITED	Trivial Pursuit (Box-1)
CAMERON BALLOONS LIMITED	Truck-56
CAMERON BALLOONS LIMITED	Truck-72
CAMERON BALLOONS LIMITED	Tub-80
CAMERON BALLOONS LIMITED	Turtle-120 (Quadruped-13)
CAMERON BALLOONS LIMITED	TV-80 (Box-8)
CAMERON BALLOONS LIMITED	Tyre-100 (Horizontal Cylinder-2)
CAMERON BALLOONS LIMITED	Unox -110 (Hat-3)
CAMERON BALLOONS LIMITED	V-42
CAMERON BALLOONS LIMITED	V-56
CAMERON BALLOONS LIMITED	V-65
CAMERON BALLOONS LIMITED	V-77
CAMERON BALLOONS LIMITED	V-90
CAMERON BALLOONS LIMITED	Van Gogh-110 Head-14
CAMERON BALLOONS LIMITED	Van-110
CAMERON BALLOONS LIMITED	Wallaby-42
CAMERON BALLOONS LIMITED	Watch-75
CAMERON BALLOONS LIMITED	Waving Flag-105
CAMERON BALLOONS LIMITED	Waving Flag-90
CAMERON BALLOONS LIMITED	Whisky Bottle-90 (Bottle-6)
CAMERON BALLOONS LIMITED	Wimi Airbus-90 (Wimi-2)
CAMERON BALLOONS LIMITED	Wine Box-90 (Box-13)
CAMERON BALLOONS LIMITED	Z-105
CAMERON BALLOONS LIMITED	Z-120

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	Z-133
CAMERON BALLOONS LIMITED	Z-140
CAMERON BALLOONS LIMITED	Z-145
CAMERON BALLOONS LIMITED	Z-150
CAMERON BALLOONS LIMITED	Z-160
CAMERON BALLOONS LIMITED	Z-180
CAMERON BALLOONS LIMITED	Z-210
CAMERON BALLOONS LIMITED	Z-225
CAMERON BALLOONS LIMITED	Z-250
CAMERON BALLOONS LIMITED	Z-275
CAMERON BALLOONS LIMITED	Z-31
CAMERON BALLOONS LIMITED	Z-315
CAMERON BALLOONS LIMITED	Z-350
CAMERON BALLOONS LIMITED	Z-375
CAMERON BALLOONS LIMITED	Z-400
CAMERON BALLOONS LIMITED	Z-42
CAMERON BALLOONS LIMITED	Z-425LW
CAMERON BALLOONS LIMITED	Z-450
CAMERON BALLOONS LIMITED	Z-450Z
CAMERON BALLOONS LIMITED	Z-56
CAMERON BALLOONS LIMITED	Z-600
CAMERON BALLOONS LIMITED	Z-65
CAMERON BALLOONS LIMITED	Z-69
CAMERON BALLOONS LIMITED	Z-750
CAMERON BALLOONS LIMITED	Z-77

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	Z-90
HEAD BALLOONS	AX7-77
HEAD BALLOONS	AX7-77b
HEAD BALLOONS	AX8-105
HEAD BALLOONS	AX8-88
HEAD BALLOONS	AX8-88b
HEAD BALLOONS	AX9-118
JR AEROSPORTS LTD	Firefly 10
JR AEROSPORTS LTD	Firefly 11
JR AEROSPORTS LTD	Firefly 11B
JR AEROSPORTS LTD	Firefly 5
JR AEROSPORTS LTD	Firefly 6
JR AEROSPORTS LTD	Firefly 6B
JR AEROSPORTS LTD	Firefly 6B-15
JR AEROSPORTS LTD	Firefly 7
JR AEROSPORTS LTD	Firefly 7-15
JR AEROSPORTS LTD	Firefly 7B
JR AEROSPORTS LTD	Firefly 7B-15
JR AEROSPORTS LTD	Firefly 8
JR AEROSPORTS LTD	Firefly 8-24
JR AEROSPORTS LTD	Firefly 8B
JR AEROSPORTS LTD	Firefly 8B-15
JR AEROSPORTS LTD	Firefly 9
JR AEROSPORTS LTD	Firefly 9B-15
JR AEROSPORTS LTD	Firefly 9

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
JR AEROSPORTS LTD	Firefly 9B-15
JR AEROSPORTS LTD	Firefly B7
JR AEROSPORTS LTD	Firefly Bottle
JR AEROSPORTS LTD	Firefly C7
JR AEROSPORTS LTD	Firefly C7B
JR AEROSPORTS LTD	Firefly C8
JR AEROSPORTS LTD	Galaxy-7
JR AEROSPORTS LTD	Galaxy-8
JR AEROSPORTS LTD	Galaxy-9
KAVANAGH INVESTMENT TRUST	B-105
KAVANAGH INVESTMENT TRUST	B-350
KAVANAGH INVESTMENT TRUST	B-400
KAVANAGH INVESTMENT TRUST	B-77
KAVANAGH INVESTMENT TRUST	C-56
KAVANAGH INVESTMENT TRUST	C-65
KAVANAGH INVESTMENT TRUST	C-77
KAVANAGH INVESTMENT TRUST	D-105
KAVANAGH INVESTMENT TRUST	D-77
KAVANAGH INVESTMENT TRUST	D-84
KAVANAGH INVESTMENT TRUST	D-90
KAVANAGH INVESTMENT TRUST	E-120
KAVANAGH INVESTMENT TRUST	E-140
KAVANAGH INVESTMENT TRUST	E-160
KAVANAGH INVESTMENT TRUST	E-180
KAVANAGH INVESTMENT TRUST	E-210

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
KAVANAGH INVESTMENT TRUST	E-240
KAVANAGH INVESTMENT TRUST	E-260
KAVANAGH INVESTMENT TRUST	E-300
KAVANAGH INVESTMENT TRUST	EX-65
KAVANAGH INVESTMENT TRUST	G-450
LINDSTRAND TECHNOLOGIES LTD.	70
LINDSTRAND TECHNOLOGIES LTD.	80
LINDSTRAND TECHNOLOGIES LTD.	90
LINDSTRAND TECHNOLOGIES LTD.	105
LINDSTRAND TECHNOLOGIES LTD.	120
LINDSTRAND TECHNOLOGIES LTD.	150
LINDSTRAND TECHNOLOGIES LTD.	180
LINDSTRAND TECHNOLOGIES LTD.	Lindstrand Racer Series
LINDSTRAND TECHNOLOGIES LTD.	Lindstrand Series 1
LINDSTRAND TECHNOLOGIES LTD.	LTL Series Special
LINDSTRAND TECHNOLOGIES LTD.	SR-56
LINDSTRAND TECHNOLOGIES LTD.	SR-65
NOTHEISZ BALLOONS HUNGARY Kft.	AX-10
NOTHEISZ BALLOONS HUNGARY Kft.	AX-6
NOTHEISZ BALLOONS HUNGARY Kft.	AX-7
NOTHEISZ BALLOONS HUNGARY Kft.	AX-8
NOTHEISZ BALLOONS HUNGARY Kft.	AX-9
NOUVELLE MANUFACT. D'AEROSTATS	MA 18
NOUVELLE MANUFACT. D'AEROSTATS	MA 22
NOUVELLE MANUFACT. D'AEROSTATS	MA 26

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
NOUVELLE MANUFACT. D'AEROSTATS	MA 30
NOUVELLE MANUFACT. D'AEROSTATS	MA 35
NOUVELLE MANUFACT. D'AEROSTATS	MA 40
SUP-AIR BALLON EGYESŰLET	B-AX 8
SUP-AIR BALLON EGYESŰLET	C-AX 9
SUP-AIR BALLON EGYESŰLET	D-AX 5
SUP-AIR BALLON EGYESŰLET	E-AX-10
SUP-AIR BALLON EGYESŰLET	F-AX 7
THEO SCHROEDER FIRE BALLOONS	Auto
THEO SCHROEDER FIRE BALLOONS	Bierglas
THEO SCHROEDER FIRE BALLOONS	Cat
THEO SCHROEDER FIRE BALLOONS	Clown-Kopf
THEO SCHROEDER FIRE BALLOONS	Erdbeere
THEO SCHROEDER FIRE BALLOONS	Fire Balloons G
THEO SCHROEDER FIRE BALLOONS	Gasbehälter
THEO SCHROEDER FIRE BALLOONS	Gasflasche
THEO SCHROEDER FIRE BALLOONS	Gutfried
THEO SCHROEDER FIRE BALLOONS	Kasper
THEO SCHROEDER FIRE BALLOONS	Kater
THEO SCHROEDER FIRE BALLOONS	Katze
THEO SCHROEDER FIRE BALLOONS	Kopf
THEO SCHROEDER FIRE BALLOONS	Kopfhörer
THEO SCHROEDER FIRE BALLOONS	Lefax
THEO SCHROEDER FIRE BALLOONS	Maus
THEO SCHROEDER FIRE BALLOONS	Ottifant

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
THEO SCHROEDER FIRE BALLOONS	Pig 30
THEO SCHROEDER FIRE BALLOONS	Pig 36
THEO SCHROEDER FIRE BALLOONS	Pinguin
THEO SCHROEDER FIRE BALLOONS	Schwartau
THEO SCHROEDER FIRE BALLOONS	Sky Heart
THEO SCHROEDER FIRE BALLOONS	Sunflower 36
THEO SCHROEDER FIRE BALLOONS	Teefix
THEO SCHROEDER FIRE BALLOONS	Teekanne
THEO SCHROEDER FIRE BALLOONS	Vase
ULTRAMAGIC, S.A.	B-Series
ULTRAMAGIC, S.A.	B-Series B-70
ULTRAMAGIC, S.A.	F-10 TXORI
ULTRAMAGIC, S.A.	F-11 MONTGOLFIERE
ULTRAMAGIC, S.A.	F-12 PAQUETE
ULTRAMAGIC, S.A.	F-13 FAIRY
ULTRAMAGIC, S.A.	F-14 JARRA DE CERVEZA
ULTRAMAGIC, S.A.	F-15 BOTE-HUCHA
ULTRAMAGIC, S.A.	F-16 CAJA 2
ULTRAMAGIC, S.A.	F-17 OVNI
ULTRAMAGIC, S.A.	F-18 PIZZA
ULTRAMAGIC, S.A.	F-19 CAVA
ULTRAMAGIC, S.A.	F-20 BEETLE
ULTRAMAGIC, S.A.	F-21 CEPSA
ULTRAMAGIC, S.A.	F-22 TORRE
ULTRAMAGIC, S.A.	F-24 FLYINGMAN

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
ULTRAMAGIC, S.A.	F-25 FUTBOL
ULTRAMAGIC, S.A.	F-26 HEART
ULTRAMAGIC, S.A.	F-29 MOVISTAR
ULTRAMAGIC, S.A.	F-30 EGG
ULTRAMAGIC, S.A.	F-31 MAZORCA DEKALB
ULTRAMAGIC, S.A.	F-32 BIERAO BOTTLE
ULTRAMAGIC, S.A.	F-33 PHAROX LAMP
ULTRAMAGIC, S.A.	F-35 R4TS
ULTRAMAGIC, S.A.	F-4 TXORI
ULTRAMAGIC, S.A.	F-6 JAMBON
ULTRAMAGIC, S.A.	F-7 BOTE
ULTRAMAGIC, S.A.	F-8 LA CARTUJA
ULTRAMAGIC, S.A.	F-9 BOTELLA DE AGUA
ULTRAMAGIC, S.A.	F-Series
ULTRAMAGIC, S.A.	G-Series
ULTRAMAGIC, S.A.	H-Series
ULTRAMAGIC, S.A.	H-Series H-31
ULTRAMAGIC, S.A.	H-Series H-42
ULTRAMAGIC, S.A.	H-Series H-56
ULTRAMAGIC, S.A.	H-Series H-65
ULTRAMAGIC, S.A.	H-Series H-77
ULTRAMAGIC, S.A.	M-Series M-105
ULTRAMAGIC, S.A.	M-Series M-120
ULTRAMAGIC, S.A.	M-Series M-130
ULTRAMAGIC, S.A.	M-Series M-145

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
ULTRAMAGIC, S.A.	M-Series M-160
ULTRAMAGIC, S.A.	M-Series M-42
ULTRAMAGIC, S.A.	M-Series M-56
ULTRAMAGIC, S.A.	M-Series M-56C
ULTRAMAGIC, S.A.	M-Series M-65
ULTRAMAGIC, S.A.	M-Series M-65C
ULTRAMAGIC, S.A.	M-Series M-77
ULTRAMAGIC, S.A.	M-Series M-77C
ULTRAMAGIC, S.A.	M-Series M-90
ULTRAMAGIC, S.A.	N-Series
ULTRAMAGIC, S.A.	N-Series N-180
ULTRAMAGIC, S.A.	N-Series N-210
ULTRAMAGIC, S.A.	N-Series N-250
ULTRAMAGIC, S.A.	N-Series N-300
ULTRAMAGIC, S.A.	N-Series N-355
ULTRAMAGIC, S.A.	N-Series N-425
ULTRAMAGIC, S.A.	N-Series N-500
ULTRAMAGIC, S.A.	S-Series S-105
ULTRAMAGIC, S.A.	S-Series S-130
ULTRAMAGIC, S.A.	S-Series S-160
ULTRAMAGIC, S.A.	S-Series S-50
ULTRAMAGIC, S.A.	S-Series S-70
ULTRAMAGIC, S.A.	S-Series S-90
ULTRAMAGIC, S.A.	T-Series
ULTRAMAGIC, S.A.	T-Series T-150

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
ULTRAMAGIC, S.A.	M-Series M-160
ULTRAMAGIC, S.A.	M-Series M-42
ULTRAMAGIC, S.A.	M-Series M-56
ULTRAMAGIC, S.A.	M-Series M-56C
ULTRAMAGIC, S.A.	M-Series M-65
ULTRAMAGIC, S.A.	M-Series M-65C
ULTRAMAGIC, S.A.	M-Series M-77
ULTRAMAGIC, S.A.	M-Series M-77C
ULTRAMAGIC, S.A.	M-Series M-90
ULTRAMAGIC, S.A.	N-Series
ULTRAMAGIC, S.A.	N-Series N-180
ULTRAMAGIC, S.A.	N-Series N-210
ULTRAMAGIC, S.A.	N-Series N-250
ULTRAMAGIC, S.A.	N-Series N-300
ULTRAMAGIC, S.A.	N-Series N-355
ULTRAMAGIC, S.A.	N-Series N-425
ULTRAMAGIC, S.A.	N-Series N-500
ULTRAMAGIC, S.A.	S-Series S-105
ULTRAMAGIC, S.A.	S-Series S-130
ULTRAMAGIC, S.A.	S-Series S-160
ULTRAMAGIC, S.A.	S-Series S-50
ULTRAMAGIC, S.A.	S-Series S-70
ULTRAMAGIC, S.A.	S-Series S-90
ULTRAMAGIC, S.A.	T-Series
ULTRAMAGIC, S.A.	T-Series T-150

GROUP 4 HOT-AIR BALLOONS	
TC Holder	**Model**
ULTRAMAGIC, S.A.	T-Series T-180
ULTRAMAGIC, S.A.	T-Series T-210
ULTRAMAGIC, S.A.	V-Series V-105
ULTRAMAGIC, S.A.	V-Series V-25
ULTRAMAGIC, S.A.	V-Series V-56
ULTRAMAGIC, S.A.	V-Series V-65
ULTRAMAGIC, S.A.	V-Series V-77
ULTRAMAGIC, S.A.	V-Series V-90

GROUP 4 GAS AIRSHIPS	
TC Holder	**Model**
AMERICAN BLIMP CORPORATION	A-1-50
AMERICAN BLIMP CORPORATION	A-1-70
AMERICAN BLIMP CORPORATION	A-60
AMERICAN BLIMP CORPORATION	A-60+
CAMERON BALLOONS LIMITED	DG-14
WDL LUFTSCHIFFGESELLSCHAFT MBH	P 4360 A
WDL LUFTSCHIFFGESELLSCHAFT MBH	WDL I
WDL LUFTSCHIFFGESELLSCHAFT MBH	WDL I B

GROUP 4 HOT-AIR AIRSHIPS	
TC Holder	**Model**
CAMERON BALLOONS LIMITED	AS 105 GD/4
CAMERON BALLOONS LIMITED	AS 105 GD/6
CAMERON BALLOONS LIMITED	AS 105 MkII
CAMERON BALLOONS LIMITED	AS 120 MkII
CAMERON BALLOONS LIMITED	AS 80 GD
CAMERON BALLOONS LIMITED	AS 80 MkII
CAMERON BALLOONS LIMITED	D-38
CAMERON BALLOONS LIMITED	D-50
CAMERON BALLOONS LIMITED	D-77
CAMERON BALLOONS LIMITED	D-96
CAMERON BALLOONS LIMITED	DP-50
CAMERON BALLOONS LIMITED	DP-60
CAMERON BALLOONS LIMITED	DP-70
CAMERON BALLOONS LIMITED	DP-80
CAMERON BALLOONS LIMITED	DP-90
LINDSTRAND HOT AIR BALLOONS	HS-110

APPENDIX II – AIRCRAFT TYPE PRACTICAL EXPERIENCE AND ON-THE-JOB TRAINING – LIST OF TASKS

Tasks are divided in categories of aircraft:

A) aeroplanes

B) sailplanes and powered sailplanes

C) balloons and airships

A. SPECIFIC TASKS FOR AEROPLANES

Time limits/Maintenance checks

100 hour check (general aviation aircraft).

'B' or 'C' check (transport category aircraft).

Assist carrying out a scheduled maintenance check i.a.w. AMM.

Review Aircraft maintenance log for correct completion.

Review records for compliance with Airworthiness Directives.

Review records for compliance with component life limits.

Procedure for inspection following heavy landing.

Procedure for inspection following lightning strike.

Dimensions/Areas

Locate component(s) by zone/station number.

Perform symmetry check.

Lifting and Shoring

Assist in:

Jack aircraft nose or tail wheel.

Jack complete aircraft.

Sling or trestle major component.

Levelling/Weighing

Level aircraft.

Weigh aircraft.

Prepare weight and balance amendment.

Check aircraft against equipment list.

Towing and Taxiing

Prepare for aircraft towing.

Tow aircraft.

Be part of aircraft towing team.

Parking and mooring

Tie down aircraft.

Park, secure and cover aircraft.

Position aircraft in dock.

Secure rotor blades.

Placards and Markings

Check aircraft for correct placards.

Check aircraft for correct markings.

Servicing

Refuel aircraft.

Defuel aircraft.

Carry out tank to tank fuel transfer.

Check/adjust tire pressures.

Check/replenish oil level.

Check/replenish hydraulic fluid level.

Check/replenish accumulator pressure.

Charge pneumatic system.

Grease aircraft.

Connect ground power.

Service toilet/water system

Perform pre-flight/daily check.

Vibration and Noise Analysis

Analyse helicopter vibration problem.

Analyse noise spectrum.

Analyse engine vibration.

Air Conditioning

Replace combustion heater.

Replace flow control valve.

Replace outflow valve.

Replace safety valve.

Replace vapour cycle unit.

Replace air cycle unit.

Replace cabin blower.

Replace heat exchanger.

Replace pressurisation controller.

Clean outflow valves.

Deactivate/reactivate cargo isolation valve.

Deactivate/reactivate avionics ventilation components.

Check operation of air conditioning/heating system.

Check operation of pressurisation system.

Troubleshoot faulty system.

Auto flight

Install servos.

Rig bridle cables Replace controller.

Replace amplifier.

Replacement of the auto flight system LRUs in case of fly-by-wire aircraft.

Check operation of auto-pilot.

Check operation of auto-throttle/auto-thrust.

Check operation of yaw damper.

Check and adjust servo clutch.

Perform autopilot gain adjustments.

Perform mach trim functional check.

Troubleshoot faulty system.

Check autoland system.

Check flight management systems.

Check stability augmentation system.

Communications

Replace VHF COM unit.

Replace HF COM unit.

Replace existing antenna.

Replace static discharge wicks.

Check operation of radios.

Perform antenna VSWR check.

Perform SELCAL operational check.

Perform operational check of passenger address system.

Functionally check audio integrating system.

Repair coaxial cable.

Troubleshoot faulty system.

Check SATCOM.

Electrical Power

Charge lead/acid battery.

Charge Ni-Cad battery.

Check battery capacity.

Deep-cycle Ni-Cad battery.

Replace integrated drive/generator/alternator.

Replace switches.

Replace circuit breakers.

Adjust voltage regulator.

Change voltage regulator.

Amend electrical load analysis report.

Repair/replace electrical feeder cable.

Troubleshoot faulty system.

Perform functional check of integrated drive/generator/alternator.

Perform functional check of voltage regulator.

Perform functional check of emergency generation system.

Equipment/Furnishings

Replace carpets

Replace crew seats.

Replace passenger seats.

Check inertia reels.

Check seats/belts for security.

Check emergency equipment.

Check ELT for compliance with regulations.

Repair toilet waste container.

Remove and install ceiling and sidewall panels.

Repair upholstery.

Change cabin configuration.

Replace cargo loading system actuator.

Test cargo loading system.

Replace escape slides/ropes.

Fire protection

Check fire bottle contents.

Check/test operation of fire/smoke detection and warning system.

Check cabin fire extinguisher contents.

Check lavatory smoke detector system.

Check cargo panel sealing.

Install new fire bottle.

Replace fire bottle squib.

Troubleshoot faulty system.

Inspect engine fire wire detection systems.

Flight Controls

Inspect primary flight controls and related components i.a.w. AMM.

Extending/retracting flaps & slats.

Replace horizontal stabiliser.

Replace spoiler/lift damper.

Replace elevator.

Deactivation/reactivation of aileron servo control.

Replace aileron.

Replace rudder.

Replace trim tabs.

Install control cable and fittings.

Replace slats.

Replace flaps.

Replace powered flying control unit.

Replace flat actuator.

Rig primary flight controls.

Adjust trim tab.

Adjust control cable tension.

Check control range and direction of movement.

Check for correct assembly and locking.

Troubleshoot faulty system.

Functional test of primary flight controls.

Functional test of flap system.

Operational test of the side stick assembly.

Operational test of the THS.

THS system wear check.

Fuel

Water drain system (operation).

Replace booster pump.

Replace fuel selector.

Replace fuel tank cells.

Replace/test fuel control valves.

Replace magnetic fuel level indicators.

Replace water drain valve.

Check/calculate fuel contents manually.

Check filters.

Flow check system.

Check calibration of fuel quantity gauges.

Check operation feed/selectors.

Check operation of fuel dump/jettison system.

Fuel transfer between tanks.

Pressure defuel.

Pressure refuel (manual control).

Deactivation/reactivation of the fuel valves (transfer defuel, X-feed, refuel).

Troubleshoot faulty system.

Hydraulics

Replace engine driven pump.

Check/replace case drain filter.

Replace standby pump.

Replace hydraulic motor pump/generator.

Replace accumulator.

Check operation of shut off valve.

Check filters/clog indicators.

Check indicating systems.

Perform functional checks.

Pressurisation/depressurisation of the hydraulic system.

Power Transfer Unit (PTU) operation.

Replacement of PTU.

Troubleshoot faulty system.

Ice and rain protection

Replace pump.

Replace timer.

Inspect repair propeller deice boot.

Test propeller de-icing system.

Inspect/test wing leading edge de-icer boot.

Replace anti-ice/deice valve.

Install wiper motor.

Check operation of systems.

Operational test of the pitot-probe ice protection.

Operational test of the TAT ice protection.

Operational test of the wing ice protection system.

Assistance to the operational test of the engine air-intake ice protection (with engines operating).

Troubleshoot faulty system.

Indicating/recording systems

Replace flight data recorder.

Replace cockpit voice recorder.

Replace clock.

Replace master caution unit.

Replace FDR.

Perform FDR data retrieval.

Troubleshoot faulty system.

Implement ESDS procedures.

Inspect for HIRF requirements.

Start/stop EIS procedure.

Bite test of the CFDIU.

Ground scanning of the central warning system.

Landing Gear

Build up wheel.

Replace main wheel.

Replace nose wheel.

Replace steering actuator.

Replace truck tilt actuator.

Replace gear retraction actuator.

Replace uplock/downlock assembly.

Replace shimmy damper.

Rig nose wheel steering.

Functional test of the nose wheel steering system.

Replace shock strut seals.

Replace brake unit.

Replace brake control valve.

Bleed brakes.

Replace brake fan.

Test anti-skid unit.

Test gear retraction.

Change bungees.

Adjust micro switches/sensors.

Charge struts with oil and air.

Troubleshoot faulty system.

Test auto-brake system.

Replace rotorcraft skids.

Replace rotorcraft skid shoes.

Pack and check floats.

Flotation equipment.

Check/test emergency blowdown (emergency landing gear extension).

Operational test of the landing gear doors.

Lights

Repair/replace rotating beacon.

Repair/replace landing lights.

Repair/replace navigation lights.

Repair/replace interior lights.

Replace ice inspection lights.

Repair/replace logo lights.

Repair/replace emergency lighting system.

Perform emergency lighting system checks.

Troubleshoot faulty system

Instruments

Troubleshoot faulty system.

Calibrate magnetic direction indicator.

Replace airspeed indicator.

Replace altimeter.

Replace air-data computer.

Replace ADI.

Replace HSI.

Check pitot static system for leaks.

Check operation of directional gyro.

Check calibration of pitot static instruments.

Compass replacement direct/indirect.

Functional check flight director system.

Surveillance

Troubleshoot faulty system.

Functional check weather radar.

Functional check doppler.

Functional check TCAS.

Functional check ATC transponder.

Check calibration of pressure altitude reporting system.

Navigation

Functional check inertial navigation system.

Complete quadrantal error correction of ADF system.

Check GPS.

Test AVM.

Check marker systems.

Functional check DME.

Oxygen

Inspect on board oxygen equipment.

Purge and recharge oxygen system.

Replace regulator.

Replace oxygen generator.

Test crew oxygen system.

Perform auto oxygen system deployment check.

Troubleshoot faulty system.

Pneumatic systems

Replace filter.

Replace air shut off valve.

Replace pressure regulating valve.

Replace compressor.

Recharge dessicator.

Adjust regulator.

Check for leaks.

Troubleshoot faulty system.

Vacuum systems

Inspect the vacuum system i.a.w. AMM.

Replace vacuum pump.

Check/replace filters.

Adjust regulator.

Troubleshoot faulty system.

Water/Waste

Replace water pump.

Replace tap.

Replace toilet pump.

Perform water heater functional check.

Troubleshoot faulty system.

Inspect waste bin flap closure.

Central Maintenance System

Retrieve data from CMU.

Replace CMU.

Perform Bite check.

Troubleshoot faulty system.

Airborne Auxiliary power

Install APU.

Inspect hot section.

Troubleshoot faulty system.

Structures

Assessment of damage.

Sheet metal repair.

Fibre glass repair.

Wooden repair.

Fabric repair.

Recover fabric control surface.

Treat corrosion.

Apply protective treatment.

Doors

Inspect passenger door i.a.w. AMM.

Rig/adjust locking mechanism.

Adjust air stair system.

Check operation of emergency exits.

Test door warning system.

Troubleshoot faulty system.

Remove and install passenger door i.a.w. AMM.

Remove and install emergency exit i.a.w. AMM.

Inspect cargo door i.a.w. AMM.

Windows

Replace windshield.

Replace direct vision window.

Replace cabin window.

Repair transparency.

Wings

Skin repair.

Recover fabric wing.

Replace tip.

Replace rib.

Replace integral fuel tank panel.

Check incidence/rig.

Propeller

Assemble prop after transportation.

Replace propeller.

Replace governor.

Adjust governor.

Perform static functional checks.

Check operation during ground run.

Check track.

Check setting of micro switches.

Assessment of blade damage i.a.w. AMM.

Dynamically balance prop.

Troubleshoot faulty system.

Main Rotors

Install rotor assembly.

Replace blades.

Replace damper assembly.

Check track.

Check static balance.

Check dynamic balance.

Troubleshoot.

Rotor Drive

Replace mast.

Replace drive coupling.

Replace clutch/freewheel unit

Replace drive belt.

Install main gearbox.

Overhaul main gearbox.

Check gearbox chip detectors.

Tail Rotors

Install rotor assembly.

Replace blades.

Troubleshoot.

Tail Rotor Drive

Replace bevel gearbox.

Replace universal joints.

Overhaul bevel gearbox.

Install drive assembly.

Check chip detectors.

Check/install bearings and hangers.

Check/service/assemble flexible couplings.

Check alignment of drive shafts.

Install and rig drive shafts.

Rotorcraft flight controls

Install swash plate.

Install mixing box.

Adjust pitch links.

Rig collective system.

Rig cyclic system.

Rig anti-torque system.

Check controls for assembly and locking.

Check controls for operation and sense.

Troubleshoot faulty system.

Power Plant

Build up ECU.

Replace engine.

Repair cooling baffles.

Repair cowling.

Adjust cowl flaps.

Repair faulty wiring.

Troubleshoot.

Assist in dry motoring check.

Assist in wet motoring check.

Assist in engine start (manual mode).

Piston Engines

Remove/install reduction gear.

Check crankshaft run-out.

Check tappet clearance.

Check compression.

Extract broken stud.

Install helicoil.

Perform ground run.

Establish/check reference RPM.

Troubleshoot.

Turbine Engines

Replace module.

Replace fan blade.

Hot section inspection/boroscope check.

Carry out engine/compressor wash.

Carry out engine dry cycle.

Engine ground run.

Establish reference power.

Trend monitoring/gas path analysis.

Troubleshoot.

Fuel and control, piston

Replace engine driven pump.

Adjust AMC.

Adjust ABC.

Install carburettor/injector.

Adjust carburettor/injector.

Clean injector nozzles.

Replace primer line.

Check carburettor float setting.

Troubleshoot faulty system.

Fuel and control, turbine

Replace FCU.

Replace Engine Electronic Control Unit (FADEC).

Replace Fuel Metering Unit (FADEC).

Replace engine driven pump.

Clean/test fuel nozzles.

Clean/replace filters.

Adjust FCU.

Troubleshoot faulty system.

Functional test of FADEC.

Ignition systems, piston

Change magneto.

Change ignition vibrator.

Change plugs.

Test plugs.

Check H.T. leads.

Install new leads.

Check timing.

Check system bonding.

Troubleshoot faulty system.

Ignition systems, turbine

Perform functional test of the ignition system.

Check glow plugs/ignitors.

Check H.T. leads.

Check ignition unit.

Replace ignition unit.

Troubleshoot faulty system.

Engine Controls

Rig thrust lever.

Rig RPM control.

Rig mixture HP cock lever.

Rig power lever.

Check control sync (multi-eng).

Check controls for correct assembly and locking.

Check controls for range and direction of movement.

Adjust pedestal micro-switches.

Troubleshoot faulty system.

Engine Indicating

Replace engine instruments(s).

Replace oil temperature bulb.

Replace thermocouples.

Check calibration.

Troubleshoot faulty system.

Exhaust, piston

Replace exhaust gasket.

Inspect welded repair.

Pressure check cabin heater muff.

Troubleshoot faulty system.

Exhaust, turbine

Change jet pipe.

Change shroud assembly.

Install trimmers.

Inspect/replace thrust reverser.

Replace thrust reverser component.

Deactivate/reactivate thrust reverser.

Operational test of the thrust reverser system.

Oil

Change oil.

Check filter(s).

Adjust pressure relief valve.

Replace oil tank.

Replace oil pump.

Replace oil cooler.

Replace firewall shut off valve.

Perform oil dilution test.

Troubleshoot faulty system.

Starting

Replace starter.

Replace start relay.

Replace start control valve.

Check cranking speed.

Troubleshoot faulty system.

Turbines, piston engines

Replace PRT.

Replace turbo-blower.

Replace heat shields.

Replace waste gate.

Adjust density controller.

Engine water injection

Replace water/methanol pump.

Flow check water/methanol system.

Adjust water/methanol control unit.

Check fluid for quality.

Troubleshoot faulty system

Accessory gear boxes

Replace gearbox.

Replace drive shaft.

Inspect magnetic chip detector.

APU

Removal/installation of the APU.

Removal/installation of the inlet guide-vane actuator.

Operational test of the APU emergency shut-down test.

Operational test of the APU.

B. SPECIFIC TASKS FOR SAILPLANES AND POWERED SAILPLANES

Structures	Wooden/ metal tube and fabric / composite / metallic
General activities	
Placards check or replace	x
Weighing, weight & balance sheet	x
Documentation of annual inspection, repair	x
Review records for compliance with airworthiness directives	x
Five annual inspections	x
Inspection after an occurrence	x
Dismantling/reinstallation of wings and empennages	x
Leveling and weighing	
Level the sailplane	x
Weighing, weight & balance sheet	x
Prepare a weight and balance amendment	x
Check the list of equipment	x
Flight controls and flight control systems	
Aileron, flaps: Removal — Balancing — Reinstallation	x
Elevator: Removal — Balancing — Reinstallation	x
Rudder: Removal — Balancing — Reinstallation	x
Rudder cable: Fabrication and installation	x
Elevator pushrod: Installation	x
Safeguarding of pins, screws, castellated nuts	x
Sealing of gaps	x
Electrical systems	
Electrical components, wiring: Removal — Installation	x
Batteries — Servicing	x

Structures	Wooden/ metal tube and fabric / composite / metallic
Avionic systems	
COM: Removal — Installation	x
NAV: Removal — Installation	x
XPDR: Removal — Installation	x
Antenna/antenna cable: Removal — Installation	x
Cabin equipment/systems	
Belts/safety harnesses: Removal — Installation	x
Oxygen system removal installation — Test	x
Canopy replacement or repair	x
Pitot/static system: Removal — Installation — Test	x
Flight instruments: Removal — Installation	x
Installation of approved equipment	x
Compass: Installation — Compensation	x
Tow release: Removal — Installation	x
Water ballast system: Removal — Installation — Test	x
Undercarriage: Removal — Installation	x
Brake system: Replacement of components	x
Fuel — Engine — Propeller — Engine — Instruments Refer to the tasks related to propeller, piston engine, fuel and control, ignition, engine indications and exhaust, which are contained in Table A ‘Specific tasks for aeroplanes’	x
Verification and adjustment of folding system of powered sailplanes	x
Wooden structures/Metal tubes and fabric	
Inspection/testing for damages	x
Rib structure repair	x

Structures	Wooden/ metal tube and fabric / composite / metallic
Plywood skin repair	x
Recover or repair structure with fabric	x
Protective coating and finishing	x
Install patch on fabric material	x
Repair of fairings	x
Composite structures	
Laminate repair	x
Sandwich structure repair	x
Partial gel coat repair	x
Complete gel coating	x
Repair of fairings	x

C. SPECIFIC TASKS FOR BALLOONS AND AIRSHIPS

Tasks	Balloon			Airship	
	Hot air	Gas	Tethered gas	Hot air	Gas
General activities:					
Functionality test of aircraft (*)	x	x	x	x	x
Placards check or replace	x	x	x	x	x
Documentation annual inspection, repair, ADs, equipment (*)	x	x	x	x	x
Classification repair (*)	x	x	x	x	x
Weighing:					
Weighing and weighing report (*)	x	x	x	x	x
Servicing:					
Lubrication of controls when applicable			x	x	x
Cleaning envelope, basket, burner	x	x	x	x	x
Inspections:					
Eight annual inspections (covering at least 3 different types) (*)	x				
Five annual inspections (covering at least 2 different types) (*)		x			
Three annual inspections (covering at least 2 different types) (*)			x	x	
Two annual inspections (*)					x
Strength test of envelope fabric (*)	x	x	x	x	x
Flight control systems – Removal – Inspection - Reinstallation					
Control surface cable					x
Trim system					x

Tasks	Balloon			Airship	
	Hot air	Gas	Tethered gas	Hot air	Gas
Safeguarding of pins, screws, castellated nuts (*)			x	x	x
Stick and pedals					x
Hydromechanical control systems			x		x
Ballonet control systems (*)			x	x	x
Electrical control systems			x		x
Valves (gas valve, turning vent, parachute or rip panel) (*)	x	x	x	x	x
Control and shroud lines and pulleys	x	x	x	x	x
Elevator – stabilizer (incl. balancing if applicable)					x
Rudder (incl. balancing if applicable)					x
Drag rope		x			
Electrical system:					
Removal – installation of electrical wires			x	x	x
Removal – installation of electrical components			x	x	x
Servicing of batteries	x	x	x	x	x
Communication system – Transponder:					
Removal – installation of COM	x	x	x	x	x
Removal – installation of NAV					x
Removal – installation of XPDR	x	x	x	x	x
Installation of antenna	x	x	x	x	x
Replacement of antenna cable	x	x	x	x	x

Tasks	Balloon			Airship	
	Hot air	Gas	Tethered gas	Hot air	Gas
Cabin – Equipments:					
Pitot / static systems – tubes removal – installation - replacement					x
Flight instruments removal – installation - replacement	x	x	x	x	x
Installation of an approved system	x	x	x	x	x
Magnetic compass installation - compenstation					x
Fire extinguisher	x			x	x
Ballast – Replacement of:					
Water ballast (when applicable)					x
Sand/shot ballast (when applicable)		x	x		x
Valves – inspection and rigging of valves					x
Envelope:					
Inspection and repair of envelope panels/gores/seams	x	x	x	x	x
Inspection and repair of load tapes and attachment points	x	x	x	x	x
Inspection and repair of deflation system	x	x		x	
Inspection and repair of net		x	x		
Inspection and repair of morring system			x		
Electrostatic conductivity test (if type is approved for hydrogen) (*)		x			x
Ballonet inspection and repair			x		x

Tasks	Balloon			Airship	
	Hot air	Gas	Tethered gas	Hot air	Gas
Inspection and fabrication of a suspension cable or rope	x	x	x	x	x
Inspection and fabrication of a catena				x	x
Load ring/frame:					
Crack detection (welded and machined parts) (*)	x	x	x	x	
Heater system:					
Removal, inspection and re-installation	x			x	
Inspection and cleaning of vaporizer and filter (*)	x			x	
Inspection and replacement of hoses (*)	x			x	
Inspection and replacement of pilot flame ignition unit(*)	x			x	
Sealing of fittings (*)	x			x	
Pressure and leak test (*)	x			x	
Disassembly an assembly of fuel cell (*)	x			x	
10-year inspection of fuel cell	x			x	
Basket/gondola:					
Removal, inspection and re-installation (as applicable)	x	x	x	x	x
Inspection and fabrication of a suspension cable or rope (*)	x	x			
Removal – installation of padding	x	x			
Removal – installation of belts – safety harness				x	x

Tasks	Balloon			Airship	
	Hot air	Gas	Tethered gas	Hot air	Gas
Removal – installation of essential elements of the cabin	x	x	x	x	x
Inspection and fabrication of a basket wire	x	x	x		
Inspection of operational equipment and its fixation points	x	x	x	x	x
Crack detection and repair (welded parts and frames)	x	x	x	x	x
Landing gear:					
Removal, inspection and re-installation of wheels			x	x	x
Removal, inspection and re-installation of brakes					x
Removal, inspection and re-installation of shock absorver					x
Fuel – Engine – Propeller – Engine instruments systems:					
Refer to tasks in blocks for aeroplanes				x	x
Wood structure:					
Structure repair	x	x	x		
Protective coating					
Composite structure:					
Laminate repair			x		x
Sandwich structure reapir			x		x
Metal structures:					
Crack detection (welded and machined parts)	x	x	x	x	x
Riveting jobs				x	x
Bonding of structures		x	x	x	x

Tasks	Balloon			Airship	
	Hot air	Gas	Tethered gas	Hot air	Gas
Anti-corrosion treatment			x	x	x
Repair of fairings			x		x
Engine:					
Tasks for aeroplanes of comparable certification level				x	x
Exhaust system:					
Tasks for aeroplanes of comparable certification level				x	x
Propeller:					
Tasks for aeroplanes of comparable certification level				x	x
Fuel system:					
Tasks for aeroplanes of comparable certification level				x	x
Hydraulic system:					
Tasks for aeroplanes of comparable certification level				x	x
Pneumatic system:					
Tasks for aeroplanes of comparable certification level				x	x
Winch system:					
Witness winch inspection			x		

APPENDIX III – EVALUATION OF THE COMPETENCE: ASSESSMENT AND ASSESSORS

This Appendix applies to the competence assessment performed by the designated assessors (and their qualifications).

1) What does 'competence' mean and areas of focus for assessment

The assessment should aim at measuring the competence by evaluating three major factors associated to the learning objectives:

— Knowledge;

— Skills;

— Attitude;

Generally, knowledge is evaluated by examination. The purpose of this document is not to describe the examination process: this material mainly addresses the evaluation of 'skills' and 'attitude' after training containing practical elements. Nevertheless, the trainee needs to demonstrate to have sufficient knowledge to perform the required tasks.

'Attitude' is indivisible from the 'skill' as this greatly contributes to the safe performance of the tasks.

The evaluation of the competence should be based on the learning objectives of the training, in particular:

— the (observable) desired performance. This covers what the trainee is expected to be able to do and how the trainee is expected to behave at the end of the training;

— the (measurable) performance standard that must be attained to confirm the trainee's level of competence in the form of tolerances, constraints, limits, performance rates or qualitative statements; and

— the conditions under which the trainee will demonstrate competence. Conditions consist of the training methods, the environmental, situational and regulatory factors.

The assessment should focus on the competencies relevant to the aircraft type and its maintenance such as, but not limited to:

— Environment awareness (act safely, apply safety precautions and prevent dangerous situations);

— Systems integration (demonstrate understanding of aircraft systems interaction – identify, describe, explain, plan, execute);

— Knowledge and understanding of areas requiring special emphasis or novelty (areas peculiar to the aircraft type, domains not covered by AAR-66 Appendix I, practical training elements that cannot be imparted through simulation devices, etc.);

— Using reports and indications (the ability to read and interpret);

— Aircraft documentation finding and handling (identify the appropriate aircraft documentation, navigate, execute and obey the prescribed maintenance procedures);

— Perform maintenance actions (demonstrate safe handling of aircraft, engines, components and tools);

— Aircraft final/close-up and report (apply close up, initiate appropriate actions/follow-up/records of testing, establish and sign maintenance records/logbooks).

2) How to assess

As far as feasible, the objectives of the assessment should be associated with the learning objectives and the passing level; it means that observable criteria should be set in order to measure the performance and should remain as objective as possible.

The general characteristics of effective assessment are: objective, flexible, acceptable, comprehensive, constructive, organised and thoughtful. At the conclusion, the trainee should have no doubt about what he/she did well, what he/she did poorly and how he/she can improve.

The following is a non-exhaustive list of questions that may be posed to assist assessment:

— What are the success factors for the job?

— What are typical characteristics of a correct behaviour for the task?

— What criteria should be observed?

— What level of expertise is expected?

— Is there any standard available?

— What is the pass mark? For example:

  — ‘Go-no go’ situation;

  — How to allocate points? Minimum amount to succeed;

  — ‘Must know or execute’ versus ‘Good to know or execute’ versus ‘Don’t expect the candidate to be an expert’.

— Minimum or maximum time to achieve? Use time effectively and efficiently.

— What if the trainee fails? How many times is the trainee allowed to fail?

— When and how should the trainee be prepared for the assessment?

— What proportion of judgment by the instructor out of collaboration with the trainee is needed during the evaluation stage?

The assessment may be:

— diagnostic (prior to a course), formative (re-orientate the course on areas where there is a need to reinforce) or summative (partial or final evaluation);

— performed task-by-task, as a group of tasks or as a final assessment;

One method might be an initial assessment to be performed by the trainee himself, then discussing areas where the perceptions of the trainee’s performance by the assessors differ in order to:

— develop the self-assessment habits;

— make the assessment more acceptable and understandable to both parties.

A ‘box-ticking’ exercise would be pointless. Experience has shown that assessment sheets have largely evolved over time into assessment of groups of ‘skills’ because in practice such things eventually detracted from the training and assessment that it was intended to serve: evaluate at a point of time, encourage and orientate the training needs, improve safety and ultimately qualify people for their duties.

In addition, many other aspects should be appropriately considered during the assessment process such as stress and environmental conditions, difficulty of the test, history of evaluation (such as tangible progresses or sudden and unexpected poor performance made by the trainee), amount of time necessary to build competence, etc.

All these reasons place more emphasis on the assessor and highlight the function of the organisation's approval.

3) Who should assess

In order to qualify, the assessor should:

— Be proficient and have sufficient experience or knowledge in:

— human performance and safety culture;

— the aircraft type (necessary to have the certifying staff privileges in case of CRS issuances);

— training/coaching/testing skills;

— instructional tools to use;

— Understand the objective and the content of the practical elements of the training that is being assessed;

— Have interpersonal skills to manage the assessment process (professionalism, sincerity, objectivity and neutrality, analysis skills, sense of judgement, flexibility, capability of evaluating the supervisor's or instructor's reports, handling of trainee's reactions to failing assessment with the cultural environment, being constructive, etc.);

— Be ultimately designated by the organisation to carry out the assessment.

The roles may be combined for:

— the assessor and the instructor for the practical elements of the Type Rating Training; or

— the assessor and the supervisor for the On-the-Job Training.

provided that the objectives associated to each role are clearly understood and that the competence and qualification criteria according to the company's procedures are met for both functions. Whenever possible (depending on the size of the organisation), it is recommended to split the roles (two different persons) in order to avoid any conflicts of interests.

When the functions are not combined, the role of each function should be clearly understood.

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