



**Notice of Proposed Rule Making
NPRM 19/07-12
8 November 2019**

Part 66

**Aircraft Maintenance Engineer
Licensing**

**Docket 19/07/CAR66/12
2019 Rules Review**

Proposed Rule Applicable 8th November 2019

Background to the Civil Aviation Rules

The Civil Aviation Rules establish the minimum regulatory safety boundary for participants to gain entry into, operate within, and exit the Papua New Guinea civil aviation system. The Rules are structured in a manner similar to the Civil Aviation Rules of New Zealand and the Federal Aviation Regulations of the USA. Where practicable the Rules also align with the International Civil Aviation Organization Annexes and the regulatory code of the Civil Aviation Safety Authority of Australia.

Rules are divided into Parts and each Part contains a series of individual rules that relate to a particular aviation activity. Advisory Circulars accompany many rule Parts and contain information about standards, practices and procedures that the Director has established to be an Acceptable Means of Compliance (AMC) with the associated rule. An Advisory Circular may also contain guidance material (GM) to facilitate compliance with the rule requirements.

The objective of the Civil Aviation Rules system is to strike a balance of responsibility between, on the one hand, the State and regulatory authority (CASA) and, on the other hand, those who provide services and exercise privileges in the civil aviation system. This balance must enable the State and regulatory authority to set standards for, and monitor performance of, aviation participants while providing the maximum flexibility for the participants to develop their own means of compliance within the safety boundary.

Section 45 of the Civil Aviation Act 2000 prescribes general requirements for participants in the civil aviation system and requires, among other things, participants to carry out their activities safely and in accordance with the relevant prescribed safety standards and practices.

Section 72 of the Act allows the Minister to make ordinary rules for any of the following purposes:

- (a) The implementation of Papua New Guinea's obligations under the Convention;
- (b) To provide for a safe, sustainable, effective and efficient aviation services;
- (c) The provision of aviation meteorological services, search and rescue services and civil aviation security programmes and services;
- (d) Assisting aviation safety and security, including but not limited to personal security;
- (e) Assisting economic development;
- (f) Improving access and mobility;
- (g) Protecting and promoting public health;
- (h) Ensuring environmental sustainability;
- (i) Any matter related or reasonably incidental to any of the following:
 - (1) The Minister's functions and role under section 8 of the Act;
 - (2) The Authority's general objects and functions under section 11 of the Act;
 - (3) The Authority's functions in relation to safety under section 12 of the Act; and
 - (4) The Director's functions and powers under section of 17 the Act
 - (5) The Director's powers under section 52A, 53 and 54 of the Act
- (j) Any other matter contemplated by any provision of the Act.

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1. Purpose of this NPRM

The purpose of this Notice of Proposed Rulemaking (NPRM) is to put forward for consideration the proposed amendments to Civil Aviation Rule (CAR) Part 66.

2. Background to the Proposal

2.1 General Summary

This amendment aligns current rule 66.57(a)(2) with ICAO Annex 1 Standard 4.2.1.2 with the following amendments:

- Amend rule 66.57(a)(2) to elaborate on the syllabus requirements for aircraft maintenance engineer licensing.
- Add new rule 66.57(a)(2)(i) to include syllabus requirements for *Air Law: Rules and regulations* for the issue of an AME License.
- Add new rule 66.57(a)(2)(ii) to include syllabus requirements for *Natural science and aircraft general knowledge* for the issue of an AME License.
- Add new rule 66.57(a)(2)(iii) to include the requirements for *Aircraft engineering* for the issue of an AME License.
- Add new rule 66.57(a)(2)(iv) to include the requirements for *Aircraft maintenance* for the issue of an AME License.
- Add new rule 66.57(a)(2)(v) to include Human Performance and Threat & Error management (TEM) in the eligibility requirements for the issue of an AME license.

2.2 NPRM Development

As a signatory to the convention on international civil aviation, Papua New Guinea is committed to aligning its regulations to ICAO SARPS, where practicable. Therefore, our international operations will need to remain consistent with the requirements of ICAO Annex 1. Although Threat & Error Management (TEM) standards were introduced by ICAO in Annex 1, amendment 170 becoming effective since the 17th November 2011, Papua New Guinea had never included TEM in Part 66. Furthermore, ICAO SARPS require a State to detail its syllabus requirements for the issue of an aircraft maintenance engineering license which has not been done by Papua New Guinea. The amendment proposes to adopt ICAO Annex 1 standard 4.2.1.2 to add detailed AMEL syllabus requirements including TEM into Part 66.

2.3 Key Stakeholders

The Civil Aviation Safety Authority identifies the following as key stakeholders for the proposed rule amendments contained in this NPRM:

- (1) The Civil Aviation Safety Authority
- (2) The Minister for Transport
- (3) The Minister for Civil Aviation
- (4) Aviation Document Holders
- (5) Other interested stakeholders

3. Issues Addressed during Development

There were no major issues arising during the development of this NPRM.

3.1 Consequential Amendments

There are no consequential amendments to this proposal.

3.2 Exemptions

There are no current exemptions issued against rule 66.57(a)(2).

3.3 ICAO SARPS and Level of Risk to Papua New Guinea Aviation Safety

The proposed rule amendments are intended to align, where practicable, with the SARPs contained in ICAO Annexes and are written in consultation with the following Annexes:

- Annex 1 – Personnel Licensing

3.4 Compliance Costs

The proposed rule will not impose any additional costs to industry.

4. Summary of changes

- Amend rule 66.57(a)(2) to elaborate on the syllabus requirements for aircraft maintenance engineer licensing.
- Add new rule 66.57(a)(2)(i) to include the requirements for *Air Law: Rules and regulations* for the issue of an AME License.
- Add new rule 66.57(a)(2)(ii) to include the requirements for *Natural science and aircraft general knowledge* for the issue of an AME License.
- Add new rule 66.57(a)(2)(iii) to include the requirements for *Aircraft engineering* for the issue of an AME License.
- Add new rule 66.57(a)(2)(iv) to include the requirements for *Aircraft maintenance* for the issue of an AME License.
- Add new rule 66.57(a)(2)(v) to include Human Performance and Threat & Error Management (TEM) in the eligibility requirements for the issue of an AME license.

5. Legislative Analysis

5.1 Power to Make Rules

The Minister may make ordinary rules under sections 69, 70, 71 and 72 of the Civil Aviation Act 2000, for various purposes including implementing Papua New Guinea's obligations under the Convention, assisting aviation safety and security, and any matter contemplated under the Act.

These proposed rules are made pursuant to:

- (a) Section 69(1)(a) which allows the Minister to make rules for the purpose of the implementation of Papua New Guinea's obligations under the Convention:
- (b) Section 69(b) which allows the Minister to make rules for the purpose of assisting aviation safety and security, including (but not limited to) personal security:

(c) Section 69(5) which allows the Minister to make rules that provide for matters to be determined or approved by the Authority, the Director, or any other person or empower the Authority, the Director or any other person to impose requirements, or conditions on the performance of any activity including but not limited to procedures to be followed:

(d) Section 70(c) which allows the Minister to make rules providing for general operating rules, air traffic rules, and flight rules, including but not limited to the following:

- (1) the conditions under which aircraft may be used or operated, or under which any act may be performed in or from an aircraft:
- (2) the prevention of aircraft endangering persons or property.

(e) Section 72(a) which allows the Minister to make rules for the designation, classification, and certification of all or any of the following:

- (1) aircraft:
- (2) aircraft pilots:
- (3) flight crew members:
- (4) air traffic service personnel:
- (5) aviation security service personnel:
- (6) aircraft maintenance personnel:
- (7) aviation examiners or medical examiners:
- (8) air services:
- (9) air traffic services:
- (10) aerodromes and aerodrome operators:
- (11) aeronautical navigation service providers:
- (12) aviation training organisations:
- (13) aircraft design, manufacture, and maintenance organisations:
- (14) aeronautical procedures:
- (15) aviation security services:
- (16) aviation meteorological services:
- (17) aeronautical communication services:
- (18) any other person who provides services in the civil aviation system, and any aircraft, aeronautical products, aviation related services, facilities, and equipment operated in support of the civil aviation system, or classes of such persons, aircraft, aeronautical products, aviation related services, facilities, and equipment operated in support of the civil aviation system:

(f) Section 70(b) which allows the Minister to make rules for the setting of standards, specifications, restrictions, and licensing requirements for all or any of those persons or things specified in paragraph 70(a) including the specifications of standards of design, construction, manufacture, processing, testing, supply, approval, and identification of aircraft and aeronautical products:

(g) Section 70(c) which allows the Minister to make rules setting the conditions of operation of foreign aircraft and international flights to, from, or within Papua New Guinea:

(h) Section 70(d) which allows the Minister to make rules for the definitions, abbreviations, and units of measurement to apply within the civil aviation system.

The proposed amendment of Part 66 complies with the requirements of the Civil Aviation Act and does not contravene the Constitution, the Aerodrome (Business Concession) Act, Civil Aviation (Aircraft Operator Liability) Act, Aircraft Charges Act, Airport Departure Tax Act, the Explosive Act, Firearms Act, Customs Act, Plant and Disease Control Act and the Environmental Act.

The proposed Rule has been checked for language and compliance with the legal conventions of Papua New Guinea.

5.2 Matters to be taken into account

The development of this NPRM and the proposed rule changes take into account the matters under section 75 of the Act that the Minister must take into account when making ordinary rules including the following:

5.2.1 ICAO Standards and Recommended Practices

The proposed rule amendments comply with applicable sections of International Civil Aviation Organization (ICAO) Annex 1 – *Personnel Licensing*.

5.2.2 Assisting Economic Development

The proposed rule amendments will have no detrimental impact on economic development, and in some cases will reduce costs incurred by the aviation industry.

5.2.3 Assisting Safety and Personal Security

The proposed rule amendments will maintain safety levels in respect to clarifying and maintaining common standards for the AME Licensing syllabus content used throughout the world.

5.2.4 Improving Access and Mobility

The proposed rule amendments will have no impact on access and mobility.

5.2.5 Protecting and Promoting Public Health

The proposed rule amendments will have no impact on protecting and promoting public health.

5.2.6 Ensuring Environmental Sustainability

The proposed rule amendments will have no impact on environmental sustainability.

6. Submissions on the NPRM

6.1 Submissions are invited

Interested persons are invited to participate in the making of the proposed rules by submitting written data, views, or comments. All submissions will be considered before final action on the proposed rulemaking is taken. If there is a need to make any significant change to the rule requirements in this proposal as a result of the submissions received, then interested persons may be invited to make further submissions.

6.2 Examination of Submissions

All submissions will be available in the rules docket for examination by interested persons both before and after the closing date for submissions. A consultation summary will be published on the CA web site and provided to each person who submits a written submission on this NPRM. Submissions may be examined by application to the Docket Clerk at the Civil Aviation Safety Authority Headquarter Building 1, Level 1, Morea Tobo Road, Six Mile, NCD Port Moresby between 8:30 am and 3:30 pm on weekdays, except statutory holidays.

6.3 Disclosure

Submitters should note that any information attached to submissions will become part of the docket file and will be available to the public for examination at the CASA office.

Submitters should state clearly if there is any information in their submission that is commercially sensitive or for some other reason the submitter does not want the information to be released to other interested parties.

7. How to make a submission

Submissions may be sent by the following methods:

- | | |
|------------|--|
| by Mail: | Docket Clerk (NPRM 19/07-12)
Civil Aviation Safety Authority
PO Box 1941
BOROKO
National Capital District |
| delivered: | Docket Clerk (NPRM 19/07-12)
Civil Aviation Safety Authority
Morea-Tobo Road
Six Mile, Jacksons Airport
Port Moresby NCD |
| by Fax: | Docket Clerk (NPRM 19/07-12)
3251789 / 325 1919 |
| by Email: | Docket Clerk (NPRM 19/07-12)
rules@casapng.gov.pg |

7.1 Final date for submissions

Comments must be received before **COB 27th September, 2019**

7.2 Availability of the NPRM

Any person may obtain a copy of this NPRM from-

CASA web site: www.casapng.gov.pg

or at a cost from

Docket Clerk
Civil Aviation Safety Authority Headquarter
Building 1, Level 1
Morea-Tobo Road
Six Mile, Jacksons Airport
Port Moresby NCD

7.3 Further information

For further information, contact:

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Subpart A — General

66.1 Purpose

This Part prescribes rules governing—

- (1) the issue and renewal of aviation maintenance licences, ratings and certificates; and
- (2) the privileges and limitations of those licences, ratings and certificates.

66.3 Definitions

A production non-type certificated aircraft means an aircraft that has been produced in series in a controlled design environment and accepted for use by a recognised civil or military operator, and issued with a special category airworthiness certificate under Part 21.

Airworthiness legislation examination means the written examination which tests the applicant's knowledge of the applicable civil aviation rules related to the duties and responsibilities of a licensed aircraft maintenance engineer, or where required, a holder of an aviation maintenance specialist certificate.

66.5 Licences and certificates

The following licences, ratings and certificates, are issued under this Part:

- (1) aircraft maintenance engineer licences in one or more of the following categories:
 - (i) aeroplane:
 - (ii) rotorcraft:
 - (iii) powerplant:
 - (iv) electrical:
 - (v) instrument:
 - (vi) radio:
 - (vii) lighter than air aircraft:
- (2) group ratings in the groups listed in Appendix B;
- (3) aviation maintenance specialist certificates;
- (4) certificates of inspection authorisation;
- (5) aircraft and component ratings.

66.6 Specifications for Licences

An Aircraft Maintenance Engineer licences issued under this Part must contain:

- (1) Name of the issuing State ; and
- (2) Title of licence; and
- (3) Licence number; and

- (4) Full name of the licence holder; and
- (5) Licence holder's date of birth; and
- (6) Licence holder's address; and
- (7) Licence holder's nationality; and
- (8) Signature of the licence holder; and
- (9) Authority and conditions under which the licence is issued; and
- (10) Certification concerning validity and authorization for holder to exercise privileges; and
- (11) Signature of the Officer issuing the licence and the date of such issue; and
- (12) Seal or stamp of Authority issuing the licence; and
- (13) Ratings and endorsements; and
- (14) Remarks on ratings and endorsements and other information required by Article 39 to the Convention.

66.7 Issue of licences, ratings and certificates

(a) An applicant is entitled to a licence, rating or certificate, issued by the Director under this Part if the Director is satisfied that—

- (1) the applicant is a fit and proper person; and
- (2) the applicant has sufficient ability in reading, speaking, and understanding the English language to enable that person to carry out the responsibilities of the holder of that licence, rating or certificate; and
- (3) the applicant meets the eligibility requirements in the appropriate Subpart for the licence, rating or certificate; and
- (4) the granting of the certificate or licence is not contrary to the interests of aviation safety.

66.8 Acceptance of foreign licences

(a) An applicant for the grant of a licence, rating or certificate, issued by the Director under this Part may apply for acceptance of a foreign license or certificate issued by the engineering licensing authority of the following countries or authorities if at the time of application the requirements of paragraph (c) are satisfied:

- (1) Australia
- (2) New Zealand
- (3) Canada
- (3) United Kingdom
- (4) EASA States acceptable to the Director
- (5) Japan
- (6) Singapore

- (7) PASO States
- (8) Other States acceptable to the Director
- (b) An applicant for acceptance of a foreign licence or certificate under this Part must be made on form CA61/02.
- (c) An applicant for acceptance of a foreign licence must provide the Director with-
 - (1) a certified copy of the applicant's foreign license:
 - (2) evidence of passing the Airworthiness Legislation examination as required by 66.57(a):

66.9 Examinations

- (a) An applicant for the grant of a licence, rating, or certificate under this Part must—
 - (1) for any examination, produce written proof of personal identity; and
 - (2) for a written examination, gain at least 75% of the possible marks in order to pass; and
 - (3) for an oral examination, demonstrate satisfactory working knowledge of the subject being tested.
- (b) A pass in a written subject is valid for the lifetime of the holder except for a written pass in Airworthiness Legislation which lapses after 2 years and must be re-sat if a licence has not been issued in that 2 year period.

66.11 Re-examination of maintenance personnel licences and certificates

The Director may re-examine orally, in writing, or both, the holder of a licence, rating or certificate issued under Part 66 if the Director considers that such action is necessary to establish the holder's competency. As a result of any such re-examination the Director may vary the conditions attached to, or suspend or revoke, the licence, rating or certificate.

66.13 Cheating or other unauthorised conduct

- (a) During any examination required by this Part, a person must not—
 - (1) copy from another person; or
 - (2) use any unauthorised equipment; or
 - (3) refer to any unauthorised source of information; or
 - (4) communicate in any way with anyone other than the conducting officer; or
 - (5) take an examination on behalf of anyone else; or
 - (6) remove material from the examination venue; or
 - (7) record any examination, in whole or in part, by electronic means.
- (b) A person who fails to adhere to the requirements in paragraph (a) may be subject to any or all of the following actions as the Director may determine:
 - (1) failure in that subject:

- (2) disqualification of any or all subjects already passed:
- (3) debarment from sitting further examinations under the Civil Aviation Rules for up to 12 months:
- (4) suspension or revocation of any licence, certificate, or rating issued to that person under this or any other Part of the Civil Aviation Rules, in accordance with sections 53, 54, and 55 of the Act.

66.15 Offences involving alcohol or drugs

A conviction for any offence relating to alcohol or drugs, including a refusal to submit to any lawful test for alcohol or drugs, shall be relevant for determining whether a person is, or remains, fit and proper to hold a licence or certificate. Such conviction may result in a refusal to grant a licence or certificate, or suspension or revocation of the licence or certificate.

66.17 Medical requirements

The holder of a licence or certificate issued under this Part must not exercise the privileges of that licence or certificate while the person has a known medical deficiency, or increase of a known medical deficiency, that creates a risk of harm to that person or any other person.

66.19 Production of licence or certificate

- (a) The holder of a licence or certificate must on request of the Director, produce that licence or certificate for inspection as soon as practicable.
- (b) The licence or certificate holder's signature must be entered on that licence or certificate.

Subpart B — Aircraft Maintenance Engineer Licence

66.51 Purpose

This Subpart prescribes rules governing the grant of an aircraft maintenance engineer licence and the privileges, limitations, and recent experience requirements of that licence.

66.53 Reserved

66.55 Application

- (a) An applicant for the grant of an aircraft maintenance engineer licence or an additional licence category must complete form CAA 66/01 and submit the form to the Director with a payment of the appropriate application fee prescribed by regulations made under the Act.
- (b) In addition to a completed form CAA 66/01, an applicant must provide the Director with:
 - (1) documents which provide evidence of the training, qualifications and experience stated on the form; and
 - (2) certificates from the prescribed medical professional attesting to the applicant's compliance with the medical standards of 66.17; and

- (3) where recognition of a foreign licence or qualification is being sought as provided for in 66.57(c), a copy of that licence or qualification and if that document is not in English and/or is coded, a translation into English and/or an explanation of the codes used; and
- (4) any further particulars relating to the applicant as may be required by the Director.

66.57 Eligibility requirements

- (a) To be eligible for the grant of an aircraft maintenance engineer licence, a person shall—
 - (1) be at least 21 years of age; and
 - (2) have passed ~~the Airworthiness Legislation examination and~~ written examinations, ~~or their equivalents, that are~~ relevant to the duties and responsibilities of an aircraft maintenance engineer in the following subject areas:-
 - (i) ~~acceptable to the Director; and~~ *Air Law*: rules and regulations; and
 - (ii) ~~relevant to the duties and responsibilities of an aircraft maintenance engineer in the category of licence sought.~~*Natural science and aircraft general knowledge*: basic mathematics; units of measurement; fundamental principles and theory of physics and chemistry applicable to aircraft maintenance; and
 - (iii) *Aircraft engineering*: characteristics and applications of the materials of aircraft construction including principles of construction and functioning of aircraft structures, fastening techniques; engines and their associated systems; mechanical, fluid, electrical and electronic power sources; aircraft instrument and display systems; aircraft control systems; and airborne navigation and communication systems; and
 - (iv) *Aircraft maintenance*: tasks required to ensure the continuing airworthiness of an aircraft including methods and procedures for the overhaul, repair, inspection, replacement, modification or defect rectification of aircraft structures, components and systems in accordance with the methods prescribed in the relevant Maintenance Manuals and the applicable Standards of airworthiness; and
 - (v) *Human performance* including principles of Threat and Error Management, relevant to aircraft maintenance.
- (b) A person is eligible for the grant of an aircraft maintenance engineer licence if that person—
 - (1) has satisfactorily completed one of the following:
 - (i) a traineeship in an aviation technical trade, of forty-eight months of practical aviation related experience, including formal technical training with the procedures, practices, materials, tools, machine tools, and equipment generally used in constructing, maintaining, or modifying airframes, powerplants, or avionic systems and equipment, gained at any time; or
 - (ii) a traineeship in an appropriate non-aviation technical trade, and thirty-six months of practical aviation related experience with the procedures, practices, materials, tools, machine tools, and equipment generally used in constructing, maintaining,

- or modifying airframes, powerplants, or avionic systems and equipment, gained following completion of the traineeship; or
- (iii) a total of sixty months of practical aviation related experience with the procedures, practices, materials, tools, machine tools, and equipment generally used in constructing, maintaining, or modifying airframes, powerplants, or avionic systems and equipment; or
 - (iv) a course of integrated training, including at least thirty-six months of supervised training and experience, conducted by the holder of an aviation training organisation certificate issued under Part 141 that authorises the conduct of such a course; and
- (2) for each option in paragraph (b)(1), 24 months of the experience required shall be appropriate to the category of licence sought; and
 - (3) has passed written examinations acceptable to the Director relevant to the category of licence sought.
- (c) A person holding a foreign licence is eligible for the grant of an aircraft maintenance engineer licence in the appropriate categories if—
- (1) the foreign licence held;
 - (i) is current and complies with the requirements of ICAO Annex 1; and
 - (ii) was issued by a Contracting State accepted by the Director as meeting equivalent standards for licence issue; or
 - (2) the holder of the foreign licence has passed examinations, or otherwise gained qualifications, appropriate to the category of licence sought, acceptable to the Director.
- (d) A person is eligible for the grant of an aircraft maintenance engineer licence in the Lighter-than-Air category if that person has, within the last 5 years before making application, obtained the knowledge, skills and competencies acceptable to the Director for the category.
- (e) The holder of an aircraft maintenance engineer licence is entitled to an additional category of licence if the holder has passed the applicable examinations required by paragraph (a)(2) and has completed-
- (i) 24 months of experience appropriate to the category of licence sought; or
 - (ii) 12 months of experience appropriate to the category of licence sought if the applicant has exercised the privileges of an aircraft maintenance engineer licence for 10 or more years.

66.59 Privileges and Limitations

- (a) Subject to paragraph (b) and (c) and the requirements of rule Part 145.111, an aircraft maintenance engineer licence authorises the holder to—

- (1) perform or supervise the maintenance of an aircraft, aircraft component or item of equipment; and
 - (2) release an aircraft, aircraft component or item of equipment to service after maintenance has been performed.
- (b) The holder of an aircraft maintenance engineer licence shall not exercise the privileges of that licence on an aircraft or component unless that person is familiar with the aircraft or component and-
- (1) holds the applicable group or type rating specified in Appendix B for that aircraft, aircraft component or item of equipment; or
 - (2) the privileges are additional privileges specified in Appendix C.
- (c) The holder of an aircraft maintenance engineer licence shall not exercise the additional privileges specified in Appendix C that require the use of special test equipment unless the holder has evidence that they have received training on the use of that equipment.

66.61 Duration of licence

An aircraft maintenance engineer licence issued under this Part shall be valid for the lifetime of the holder unless it is suspended or revoked in accordance with the Act.

66.63 Recent experience requirements

The holder of an aircraft maintenance engineer licence must not exercise the privileges of the licence unless that person—

- (1) has within the immediately preceding 24 months, for a period of at least 6 months—
 - (i) exercised the privileges of that licence; or
 - (ii) exercised the privileges of a foreign licence accepted by the Director as equivalent to the privileges granted by a PNG licence; or
 - (iii) supervised the maintenance of aircraft relevant to the ratings held in an executive capacity directly involving the management or control of aircraft maintenance; or
 - (iv) performed a technical training function acceptable to the Director in a certificated training organisation relevant to the ratings held; or
 - (v) performed an airworthiness or maintenance function accepted by the Director as equivalent to the exercise of privileges of a licence; or
 - (vi) has been engaged in any combination of subparagraphs (i) through (v); and
- (2) if required by the Director, has been successfully re-examined on Airworthiness Management; and
- (3) if required by the Director, has provided certified evidence of compliance with

- paragraph (1); and
- (4) is familiar with the aircraft or component; and
 - (5) holds the applicable rating specified in Subpart C for that aircraft or rating.

Subpart C — Aircraft Maintenance Engineer Licence Ratings

66.101 Purpose

This Subpart prescribes the rules governing the grant of an aircraft maintenance engineer licence group ratings and aircraft maintenance engineer type ratings.

66.103 Reserved

66.105 Application

- (a) An applicant for the grant of an aircraft maintenance engineer licence rating must complete form CAA 66/02 and submit the form to the Director with a payment of the appropriate application fee prescribed by regulations made under the Act.
- (b) In addition to a completed form CAA 66/02, an applicant must provide the Director with—
 - (1) documents which provide evidence of the training, qualification and experience stated on the form; and
 - (2) where recognition of a foreign qualification is being sought as provided for in 66.107(4) or (5), if that document is not in English and/or is coded, a translation into English and/or an explanation of the codes used; and
 - (3) any further particulars relating to the application as may be required by the Director.

66.107 Eligibility requirements

To be eligible for the grant of an aircraft maintenance engineer licence rating a person must—

- (1) hold a current aircraft maintenance engineer licence; and
- (2) have completed 6 months practical experience on the type or group of aircraft or components for which the rating is sought; and
- (3) have successfully completed examinations acceptable to the Director; or
- (4) have successfully completed a course of training relevant to the type of aircraft or components for which the rating is sought—
 - (i) conducted by the holder of an aviation training organisation certificate issued under Part 141 which authorises the conduct of such a course; or
 - (ii) conducted by the holder of an aircraft maintenance organisation certificate issued under Part 145 with an E1 rating; or
 - (iii) conducted by the manufacturer of the applicable aircraft or component; or

- (iv) approved by the competent authority of a Contracting State and acceptable to the Director as meeting equivalent standards for rating issue; or
- (5) have held a rating issued by a Contracting State acceptable to the Director as meeting equivalent standards for rating issue; or
- (6) hold or have held a licence that complies with the requirements of ICAO Annex 1 issued by a Contracting State accepted by the Director as meeting standards equivalent to 66.57 for licence issue and while that licence is or was valid, hold or have held a foreign company authorisation provided—
 - (i) that within the last 2 years before making application, the person exercised privileges under the authorisation accepted by the Director as equivalent to those prescribed under 66.111; and
 - (ii) documentary evidence is provided to the Director of any training necessary for the grant of that authorisation; and
 - (iii) if the person no longer holds the foreign company authorisation, that it was not cancelled or revoked for any reason involving breach of requirements on that person's part and where required by the Director, supporting evidence to that effect is provided.

66.109.1 Reserved

66.111 Privileges

- (a) A group rating authorizes the holder of an aircraft maintenance engineer licence to exercise the privileges of that licence on any aircraft or component falling within the definition of the applicable group in Appendix B.
- (b) Subject to the requirements in rule Part 145.111, a type rating authorizes the holder of an aircraft maintenance engineer licence to exercise the privileges of that licence on the type of aircraft or component specified on the rating.

Subpart D — Aviation Maintenance Specialist Certificate

66.151 Purpose

This Subpart prescribes rules governing the issue of an aviation maintenance specialist certificate and the privileges and limitations of that certificate.

66.153 Classes of certificate

An aviation maintenance specialist certificate may be granted in one of five classes: AMS-1, AMS-2, AMS-3, AMS-4 and AMS-5.

66.155 Application

- (a) An applicant for the grant of an aviation maintenance specialist certificate must complete form CAA 66/03 and submit the form to the Director with a payment of the appropriate application fee prescribed by regulations made under the Act.
- (b) In addition to a completed form CAA 66/03, an applicant must provide the Director with—
 - (1) documents which provide evidence of the training, qualifications and experience stated on the form; and
 - (2) any further particulars relating to the applicant as may be required by the Director.

66.157 Eligibility requirements

- (a) To be eligible for the grant of a class AMS-1 aviation maintenance specialist certificate, a person shall—
 - (1) be at least 21 years of age; and
 - (2) have passed the Airworthiness Legislation examinations; and
 - (3) have had, in the 5 years immediately preceding the application for the certificate, at least 3 years aviation maintenance experience relevant to the privileges sought; and
 - (4) either;
 - (i) have successfully completed a course of training acceptable to the Director in the knowledge and skills applicable to the privileges sought; or
 - (ii) hold an aircraft maintenance engineer licence and a rating issued under this Part for maintenance of an aircraft of similar complexity to the aircraft the person proposes to maintain under the certificate; or
 - (iii) hold a foreign licence and rating acceptable to the Director for maintenance of an aircraft of similar complexity to the aircraft the person proposes to maintain under the certificate.
- (b) To be eligible for the grant of a class AMS-2 aviation maintenance specialist certificate, a person shall—
 - (1) be at least 18 years of age; and
 - (2) hold qualifications, or demonstrate knowledge and skills acceptable to the Director, appropriate to the tasks to be performed under the authority of the certificate; and
 - (3) be actively engaged in duties which require that person to hold an AMS-2 certificate.
- (c) To be eligible for the grant of a class AMS-3 aviation maintenance specialist certificate, a person shall—
 - (1) be at least 18 years of age; and
 - (2) satisfy the Director that he or she has the requisite skills to determine whether the aircraft to be maintained under the authority of the certificate is in a condition for safe operation.
- (d) To be eligible for the grant of a class AMS-4 aviation maintenance specialist certificate, a person shall—
 - (1) hold a licence issued under this Part; and

- (2) satisfy the examination, training or foreign equivalence requirements of 66.107 for the grant of a rating under this Part.
- (e) To be eligible for the grant of a class AMS-5 aviation maintenance specialist certificate, a person shall—
- (1) be at least 18 years of age; and
 - (2) produce evidence that he or she meets at least the medical standards of 66.17; and
 - (3) have passed the Airworthiness Management and Airworthiness Legislation examinations ; and
 - (4) hold qualifications, or demonstrate knowledge and skills acceptable to the Director, appropriate to the tasks to be performed under the authority of the certificate.

66.159 Privileges and limitations

- (a) An AMS-1 class aviation maintenance specialist certificate authorises the holder to perform maintenance on, and release to service, production non-type certificated aircraft for which the certificate is endorsed.
- (b) An AMS-2 class aviation maintenance specialist certificate authorises the holder to perform and certify specific maintenance tasks and processes for which the certificate is endorsed.
- (c) An AMS-3 class aviation maintenance specialist certificate authorises the holder to perform maintenance on, and release to service, amateur built aircraft issued with special category experimental airworthiness certificates under Part 21 Subpart D for which the certificate is endorsed.
- (d) An AMS-4 class aviation maintenance specialist certificate authorises the holder of an aircraft maintenance engineer licence to perform maintenance on, and certify for release to service, an aircraft or component for which the certificate holder does not have the practical experience required by 66.107 for the grant of an aircraft specific type rating.
- (e) An AMS-5 class aviation maintenance specialist certificate authorises the holder to perform maintenance on, and release to service, gliders or microlight aircraft for which the certificate is endorsed.

66.161 Duration of certificate

- (a) An AMS-1, AMS-2, AMS-3 and AMS-5 aviation maintenance specialist certificate issued under this Part shall be valid for the lifetime of the holder unless it is suspended or revoked in accordance with the Act.
- (b) An AMS-4 aviation maintenance specialist certificate issued under this Part shall remain valid until the expiry date stated on the certificate.

66.163 Conditions of validity

- (a) The holder of an AMS-1 aviation maintenance specialist certificate must not exercise the privileges of the certificate unless that person has—
 - (1) within the immediately preceding 24 months, for a period of at least 6 months

- exercised the privileges of the certificate; and
- (2) if requested by the Director, provided certified evidence of compliance with paragraph (1); and
 - (3) continued to be familiar with all information necessary to exercise the privileges of the certificate.
- (b) The holder of an AMS-2 aviation maintenance specialist certificate must not exercise the privileges of the certificate unless that person has—
- (1) maintained competency in exercising those privileges ; and
 - (2) if requested by the Director, provided certified evidence of compliance with paragraph (1); and
 - (3) continued to be familiar with all information necessary to exercise the privileges of the certificate.
- (c) The holder of an AMS-3 aviation maintenance specialist certificate must not exercise the privileges of the certificate unless that person continues to perform maintenance of aircraft issued with special category experimental airworthiness certificates.
- (d) The holder of an AMS-4 aviation maintenance specialist certificate must not exercise the privileges of the certificate unless that person—
- (1) continues to comply with the conditions and limitations of the certificate; and
 - (2) has exercised the privileges of the certificate on a continuous basis since the certificate was granted.
- (e) The holder of an AMS-5 aviation maintenance specialist certificate must not exercise the privileges of the certificate unless that person continues to perform maintenance of gliders or microlight aircraft.

Subpart E — Certificate of Inspection Authorisation

66.201 Purpose

This Subpart prescribes rules governing the grant of a certificate of inspection authorisation and the privileges and limitations of that certificate.

66.203 Application

- (a) An applicant for the grant of a certificate of inspection authorisation must complete form CAA 66/04 and submit the form to the Director with a payment of the appropriate application fee prescribed by regulations made under the Act.
- (b) In addition to a completed form CAA 66/04, an applicant must provide the Director with—
 - (1) evidence of compliance with 66.205 (2), (3) and (4); and
 - (2) any further particulars relating to the applicant as may be required by the Director.

66.205 Eligibility requirements

- (a) Except as provided for in paragraph (b), to be eligible for a certificate of inspection authorisation a person must—
- (1) hold an aircraft maintenance engineer licence, issued under this Part, in both aeroplane and powerplant categories, or in both rotorcraft and powerplant categories; and
 - (2) at the time of application have—
 - (i) held the licence for a period of at least 5 years; and
 - (ii) met the recent experience requirement prescribed in 66.63 for a period of at least 5 years; and
 - (3) have, within the immediately preceding 24 months—
 - (i) exercised the privileges of an aircraft maintenance engineer licence; or
 - (ii) supervised, in an executive capacity acceptable to the Director, the maintenance of aircraft; and
 - (4) have successfully completed a course of instruction and passed a written examination on the inspection of aircraft and components for conformity with the CAR, conducted by—
 - (i) the holder of an aviation training organisation certificate issued under Part 141; or
 - (ii) the Director.
- (b) The Director may accept a foreign Inspection Authorisation or a foreign licence held for a period of at least 5 years in lieu of the requirement in paragraph (a)(2)(i).

66.207 Privileges and limitations

- (a) Subject to paragraph (b), a certificate of inspection authorisation entitles the holder to—
- (1) perform a maintenance review in accordance with Part 43, Subpart D; and
 - (2) after completion of major repairs and major modifications, certify conformity with the technical data listed in Appendix C to Part 21 in accordance with Part 43, Subpart E.
- (b) A person must not exercise the privileges specified in paragraph (a) unless that person has available the equipment, facilities, and inspection data necessary to properly inspect airframes, powerplants, propellers, systems or any related part or component.

66.209 Duration of certificate

A certificate of inspection authorisation issued under this Part shall be valid for a period up to 5 years or until the certificate is suspended or revoked in accordance with the Act during that period.

66.211 Conditions of validity

The holder of a certificate of inspection authorisation must not exercise the privileges of that certificate unless that person has —

- (1) within the preceding 24 months —
 - (i) performed 4 maintenance reviews in accordance with Part 43 Subpart D; or

- (ii) certified 4 aircraft or components for conformity with the data listed in Appendix C to Part 21 after completion of major repairs or major modifications; or
 - (iii) performed a combination of subparagraphs (1) and (2); or
 - (iv) successfully completed a refresher course comprising at least 8 hours instruction that is acceptable to the Director; or
 - (v) successfully completed a written examination acceptable to the Director; and
- (2) if required by the Director, provided evidence of compliance with paragraph (1)(i), (ii) or (iii); and
 - (3) maintained permanent records of each maintenance review and each certification of conformity performed; and
 - (4) continued to satisfy the aircraft maintenance engineer licence conditions of validity in 66.63.

Subpart F — Changes to Licence or Certificate

66.251 Purpose

This Subpart prescribes rules regarding changes to licences and certificates.

66.253 Personal information

The holder of a licence or certificate must advise the Director in writing within 14 days of any changes to the following:

- (1) name; and
- (2) address for service; and
- (3) nationality.

66.255 Suspension and revocation

- (a) The holder of a licence or certificate that is suspended must immediately present that licence or certificate to the Director.
- (b) The holder of a licence or certificate that is suspended must comply with any requirements or conditions specified by the Director for the re-validation of that licence or certificate.
- (c) The holder of a licence or certificate that is revoked must immediately return that licence or certificate to the Director.
- (d) If a licence or certificate is revoked, the person who was the holder of that document must advise their Part 145 approved maintenance organisation employer of the revocation.

66.257 Cancellation

The Director may return a cancelled licence or certificate to the person who was the holder after marking the document with appropriate cancellation marks.

Subpart G — Transition Provisions

66.301 Transition

Transition provisions detailed in Part 20 apply to this Part.

Appendix A — Reserved

Appendix B — Group and Type Ratings

B.1 Groups

Ratings may be issued in the following groups:

(a) Aeroplane

Group 1: Metal stressed skin unpressurized aeroplanes with fixed landing gear no exceeding 5700kg:

Group 2: Metal stressed skin unpressurised aeroplanes other than group 1:

Group 3: Aeroplanes with principally wooden or tubular structure, fabric covered:

Group 4: Aeroplanes constructed principally of fibre reinforced plastic (FRP) or similar material.

(b) Rotorcraft

Group 1: Piston engine rotorcraft:

Group 2: Turbine engine rotorcraft:

(c) Powerplant

Group 1: Normally aspirated engines:

Group 2: Turbocharged, supercharged, or radial piston engines:

(d) Electrical

Group 1: Electrical systems in pressurised aeroplanes with an MCTOW of 5700kg or less and unpressurised aircraft which have as their primary source of power:

- (i) DC generators; or
- (ii) Starter Generators; or
- (iii) Alternators with self-contained rectifiers:

Group 2: Electrical systems which have as their primary source of power:

- (i) DC generators, or starter generators, and have their frequency wild alternators installed for secondary services; or
- (ii) Constant frequency AC from alternators driven by constant speed drive units:

(e) Instrument

Group 1: General aircraft instruments systems; basic flight instrument systems; basic flight instrument systems; oxygen systems, cabin pressurization and air conditioning systems other than those fitted to pressurised aeroplanes with a MCTOW of 5700kg or more:

Group 2: Autoflight and navigation systems including air data computer systems, servo driven instruments, remote gyro systems including remote reading compasses, automatic flight control systems and inertial navigation systems other than those fitted to pressurised aeroplanes with an MCTOW of 5700kg or more;

(f) Radio

Group 1: Airborne communication systems including VHF, HF, CVR, audio and ELT:

Group 2: Airborne navigation systems including ADF, VOR, ILS, VLF, Omega, marker beacon, GPS and GNSS:

Group 3: Airborne primary and secondary radar including weather radar, dopler, radio altimeter, DME, transponder, and TCAS:

(g) Lighter than air aircraft

Group 1: Hot air free balloons and hot air airships in their entirety:

Group 2: Gas filled airships and their components excluding the engine and propeller or fan, or both.

B.2 Types

Ratings for the following aircraft or components must be issued by the Director as type ratings for the individual aircraft or component types:

- (1) **Aeroplane:** pressurised aeroplanes:
- (2) **Rotorcraft:** rotorcraft that the Director considers are not included in the Rotorcraft Group 1 or 2 rating:
- (3) **Powerplant:** turbine powerplants:
- (4) **Electrical:** electrical systems and equipment installed in pressurised aeroplanes with an MCTOW of more than 5700kg:
- (5) **Instrument:** integrated flight systems installed in pressurised aeroplanes with an MCTOW of more than 5700kg:
- (6) **Radio:** complete radio installations installed in pressurised aeroplanes with an MCTOW of more than 5700kg:
- (7) **Components:** overhaul and maintenance of aircraft or components specified in rule 43.54(b) and (c).

Appendix C – Additional Privileges

- (a) The holder of a licence in category aeroplane or category rotorcraft may perform or supervise, and certify release to service the following maintenance, if rated on the applicable aircraft type:
 - (1) the applicable inspections required by Part 91, subpart G or Part 125, subpart G, or Part 135, Subpart G or Part 136 Subpart K of Group 1 electrical and instrument systems and Group 1,2 and 3 radio systems:
 - (2) replacement, adjustment and function testing of electrical and instrument components and systems performed within the aircraft(excluding compass systems) except where special test equipment is required:
 - (3) maintenance of electrical storage batteries:
 - (4) maintenance and installation of VHF and HF radio systems:

- (5) replacement of line replaceable units:
 - (6) compass systems limited to the compensation of direct and remote reading compasses, and component changes in direct reading compass systems.
- (b) The holder of a licence in category powerplant may perform or supervise, and certify for release to service the following maintenance, if rated on the applicable powerplant type:
- (1) Functional checks and testing of engine instruments provided no special testing equipment is required:
 - (2) Replacement, adjustment and functional testing of components and systems associated with the engine provided no special test equipment is required:
 - (3) Replacement of avionic line replaceable units associated with the powerplant.
- (c) The holder of a rated licence in category electrical, instrument, or radio may perform or supervise, and certify for release to service the following maintenance:
- (1) The applicable inspections required by Part 91, Subpart G or Part 125, Subpart G or Part 135, Subpart G or Part 136 Subpart K of Group 1 electrical and instrument and Group 1,2 and 3 radio systems:
 - (2) Replacement, adjustment and function testing of electrical and instrument components and systems (excluding compass systems) performed within the aircraft except where special test equipment is required:
 - (3) Maintenance of electrical storage batteries:
 - (4) Maintenance and installation of VHF and HF radio systems:
 - (5) Replacement of line replaceable units.
- (d) The holder of a rated licence in category lighter than air aircraft may perform or supervise, and certify for release to service the following maintenance:
- (1) Routine inspections required by Part 91, Subpart G or Part 125, Subpart G or Part 135, Subpart G:
 - (2) Replacement, adjustment and function testing of electrical and instrument components and systems (excluding compass systems) except where special test equipment is required:
 - (3) Repair and replacement of interwiring and instrument plumbing:
 - (4) Installation of VHF and HF radio systems:
 - (5) Compensation and component changing of direct reading compasses