



PURSUANT to Sections 28 and 30 of the Civil Aviation Act 1990

I, Hon Julie Anne Genter, Associate Minister of Transport,

HEREBY MAKE the following ordinary rules.

SIGNED AT

This *13th* day of *July* 2020

A handwritten signature in black ink, appearing to read 'Julie Anne Genter', is written over a horizontal line. The signature is fluid and cursive, with the first name 'Julie' being the most prominent.

by Hon Julie Anne Genter

Associate Minister of Transport

Civil Aviation Rules

Part 66, Amendment 7

Aircraft Maintenance Personnel Licensing

Docket 16/CAR/9

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Rule objective

The objective of amendment 7 to Part 66 is to review and update those areas of Part 66 that no longer reflect modern aircraft technology and maintenance practices. This is particularly so in the areas of integrated aircraft avionics, maintenance practices, and improvements in aircraft reliability.

Extent of consultation

A Rules Drafting Group (RDG) was established in July 2017 comprising Civil Aviation Authority (CAA) subject matter experts together with industry and Ministry of Transport representatives. In addition, the Aircraft Engineering Association of New Zealand (AEANZ) was asked for their views on specific policy proposals arising from the RDG meetings as a preliminary test of industry understanding and practicability. The purpose of the RDG was to develop proposed rule amendments and assist in the development of the Notice of Proposed Rule Making (NPRM).

A Notice of Proposed Rule Making, NPRM 19-02, containing the proposed amendments to Part 66 and consequential amendments to Parts 19 and 61 was issued for public consultation under Docket 16/CAR/9 on 15 February 2019.

The NPRM was published on the CAA web site on 15 February 2019 and notified to industry by the automatic alert service provided by the CAA. The NPRM was also emailed to members of the RDG, the Ministry of Transport, the Aviation Community Advisory Group (ACAG), and the AEANZ.

A period of 31 days was allowed for comment on the proposed rule, with one extension of a further 5 days being granted.

Summary of submissions

A total of 29 written submissions were received on the NPRM. A summary of submissions for this NPRM is available on the CAA website. These submissions and comments have been considered and as a result, the following changes have been made to the proposed amendments to Part 66:

- the order of paragraph references in rule 66.11 has been corrected;
- the proposed medical condition reporting requirement in rule 66.19(b) is removed;
- rule 66.53 is amended by removing the proposed rule 66.53(a)(5), relating to knowledge deficiency requirements;
- rule 66.103 is amended by inserting a new paragraph (3) “*examinations acceptable to the Director*”, and renumbering the proposed paragraph (3) as paragraph (4);
- rule 66.207(2) is amended to read “*“within the immediate preceding 2 years, the holder has for a period of at least 6 months met the recent experience requirements of rule 66.57”*”; and
- Appendix C (d)(4) is amended to align with Appendix C (a)(4).

Upon further review, the following proposed amendments have been made to rule 66.211–

- revised to clarify that a group or type rating or licence issued under the Civil Aviation Regulations 1953, that existed immediately before the date that these rules come into force, is deemed to be an aircraft maintenance engineer group or type rating, or licence issued by the Director under the Act and Part 66; and
- further revised to clarify that a holder of such a rating or licence may exercise the privileges of the rating or licence as specified in Part 66 and must comply with the associated limitations and recent experience requirements.

Examination of submissions

Submissions may be examined by application to the Docket Clerk at the Civil Aviation Authority between 8:30 am and 4:30 pm on weekdays, except statutory holidays.

Insertion of Amendments

The amendments to the rules in this Part are reflected -

- by revoking and replacing rules 66.9, 66.11, 66.13, 66.15, 66.19, 66.53, 66.55, 66.57, 66.103, 66.203, 66.205, 66.207, Appendix B.1 and Appendix C;
- by inserting new rules 66.14, 66.209 and 66.211; and
- by revoking *Appendix A-Transitional Arrangements* and reserving the paragraph reference A.

Effective date of rule

Amendment 7 to Part 66 comes into force on 1 September 2020

Availability of rules

Civil Aviation Rules are available from—

CAA web site: <http://www.aviation.govt.nz/>
Freephone: 0800 GET RULES (0800 438 785)

Part 66 Aircraft Maintenance Personnel Licensing

Subpart A—General

Rule 66.9 is revoked and replaced with the following rule:

66.9 Issue of licences, certificates and ratings

(a) The Director may issue a licence, certificate or rating under the Act and 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 him or her to carry out the responsibilities of the holder of that licence, certificate, or rating; and
- (3) the applicant meets the eligibility requirements in the appropriate Subpart for the licence, certificate, or rating; and
- (4) the granting of the certificate or licence is not contrary to the interests of aviation safety; and
- (5) the applicant is medically fit to exercise the privileges of an aircraft maintenance engineer licence holder as required by rule 66.19.

(b) The Director may issue a licence, certificate or rating under the Act and this Part on the basis that the applicant is the holder of a current licence or certificate issued by a foreign contracting State to the Convention if the Director is satisfied that—

- (1) the applicant is the holder of an acceptable licence or certificate; and
- (2) the applicant is a fit and proper person; and
- (3) the granting of the certificate or licence is not contrary to the interests of aviation safety; and

- (4) except as provided in paragraph (c), the applicant has passed the examinations required by rule 66.53(a); and
 - (5) the applicant is medically fit to exercise the privileges of an aircraft maintenance engineer licence holder as required by rule 66.19 ; and
 - (6) the applicant has sufficient ability in reading, speaking, and understanding the English language to enable him or her to carry out the responsibilities of the holder of that licence, certificate, or rating.
- (c) The holder of an aircraft maintenance engineer licence issued by the competent authority of Australia is eligible for a licence or certificate issued under the Act and this Part if the holder passes an examination in New Zealand Air Law acceptable to the Director. The licence holder is not required to pass the oral examination required by rule 66.53(a)(3).

Rule 66.11 is revoked and replaced with the following rule:

66.11 Duration of licences and certificates

- (a) An aircraft maintenance engineer licence issued under the Act and this Part is valid for the lifetime of the holder unless it is suspended or revoked in accordance with the Act.
- (b) A certificate of maintenance approval may be granted for a period not exceeding 5 years.
- (c) A certificate of inspection authorisation may be granted for a period not exceeding 5 years.
- (d) The holder of an aircraft maintenance engineer licence, certificate of approval, or certificate of inspection authorisation that has been suspended or revoked must as soon as practicable forward the document to the Director.

Rule 66.13 is revoked and replaced with the following rule:

66.13 Examinations

- (a) An applicant for the grant of a licence, rating, or certificate under this Part must—
- (1) for any examination, produce proof of personal identity; and
 - (2) for a written examination, gain at least 70% of the possible marks in order to pass; and
 - (3) for an oral examination, demonstrate a thorough working knowledge of the subject being tested.
- (b) A pass in a written subject is valid for the lifetime of the holder except for written passes in Air Law which are valid for 5 years.
- (c) To be eligible for the oral examination required by rule 66.53(a)(3) an applicant must meet the written examination and experience requirements referred to in rules 66.53(a)(2) and (4).
- (d) An applicant who fails an examination 3 times is ineligible to reapply for that examination for a period of 3 months from the date of the last attempt.

New rule 66.14 is inserted after rule 66.13

66.14 Re-examination of licences

- (a) If the Director has reasonable grounds to believe that the holder of any licence, certificate, or rating issued under the Act and this Part does not have the competence to exercise the privileges of that licence, certificate, or rating, the Director may require the holder to undergo any of the examinations referred to in rule 66.53 to establish that holder's competency.
- (b) Before taking action under paragraph (a), the Director must inform the holder in writing of the grounds for the re-examination.

Rule 66.15 is revoked and replaced with the following rule:

66.15 Cheating or other unauthorised conduct

(a) During any written examination required under this Part, a person must not do, or attempt to do, or procure another person to do any of the following—

- (1) copy from another person;
- (2) refer to any unauthorised source of information;
- (3) communicate in any way with another person, except the person administering the examination;
- (4) take an examination on behalf of another person;
- (5) remove written or printed material from the examination room, unless authorised to do so by the person administering the examination;
- (6) use any means or device to copy electronic, written or printed material supplied during the examination; or
- (7) take unauthorised material into an examination room.

(b) If the Director has reasonable grounds to believe that a person has attempted, committed, or has procured another person to commit, any conduct referred to in paragraph (a), the Director may immediately suspend the release of all or part of the examination results for the person until the Director determines after due investigation, the action, if any, to be taken under paragraph (c).

(c) If the Director has reasonable grounds to believe that a person has attempted, committed, or has procured another person to commit, any conduct referred to in paragraph (a), the Director may—

- (1) disqualify the person from the result of the examination; or
- (2) debar the person from sitting any examination relating to an aviation document required by the Act for a specified period not exceeding 12 months.

(d) Before taking an action under paragraph (b) or (c), the Director must reasonably inform the person in writing of the details of the alleged conduct referred to in paragraph (a).

(e) If the Director proposes to take an action under paragraph (c), the Director must give notice in accordance with section 11 of the Act, which applies as if the proposed action were a proposed adverse decision under the Act. For the avoidance of doubt the Director is not required to give notice of appeal under section 11(2)(e) or section 11(6)(b)(iii) of the Act.

Rule 66.19 is revoked and replaced with the following rule:

66.19 Medical requirements

A holder of a licence or certificate issued under the Act and this Part must not exercise the privileges of that licence or certificate while that person has a known medical condition, or a change in an existing medical condition, that creates a risk of harm to that person or to any other person resulting from the holder's exercising of privileges under this Part.

Subpart B—Aircraft Maintenance Engineer Licence

Rule 66.53 is revoked and replaced with the following rule:

66.53 Eligibility requirements

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

- (1) be at least 21 years of age; and
- (2) have passed written examinations, or their equivalents, including an examination in Air Law, that—
 - (i) are acceptable to the Director; and
 - (ii) are relevant to the duties and responsibilities of an aircraft maintenance engineer in the category of licence sought; and
- (3) have passed an oral examination covering the person's understanding and practical application of the duties and

responsibilities exercised by the holder of an aircraft maintenance engineer licence; and

- (4) have satisfactorily completed one of the following:
- (i) a traineeship in an aviation technical trade, of 4 years 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 equipment, gained at any time; or
 - (ii) a traineeship in an appropriate non-aviation technical trade, and 3 years 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 equipment, gained following completion of the traineeship; or
 - (iii) a total of 5 years 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 equipment; or
 - (iv) a course of integrated training, including at least 3 years of supervised training and experience, conducted by the holder of a training organisation certificate granted under section 9 of the Act and in accordance with Part 141 or Part 147 if the certificate authorised the conduct of such a course.
- (b) For each option specified in paragraph (a)(4), 2 years of the experience required must be appropriate to the category of licence sought.
- (c) 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—

- (1) 2 years of experience appropriate to the category of licence sought; or
- (2) 1 year 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.

Rule 66.55 is revoked and replaced with the following rule:

66.55 Privileges and limitations

(a) Subject to paragraphs (b), (c), and the requirements of rule 43.54, an aircraft maintenance engineer licence authorises the holder to—

- (1) perform or supervise the maintenance of an aircraft or component; and
- (2) release an aircraft or component to service after maintenance has been performed.

(b) A holder of an aircraft maintenance engineer licence must not exercise the privileges of that licence on an aircraft or component unless that person can demonstrate competency in the maintenance of the aircraft or component and—

- (1) holds the applicable group or type rating specified in Appendix B for that aircraft or component; or
- (2) the privileges are limited privileges specified in Appendix C.

(c) A holder of an aircraft maintenance engineer licence must not exercise the limited privileges specified in Appendix C that require the use of special test equipment unless—

- (1) the holder has evidence that they have received training on the use of that equipment; and
- (2) the holder uses the special test equipment when required.

Rule 66.57 is revoked and replaced with the following rule:

66.57 Recent experience requirements

A holder of an aircraft maintenance engineer licence must not exercise the privileges of the licence unless, within the immediately preceding 2 years, the holder has—

- (1) for a period of at least 6 months—
 - (i) exercised the privileges of the licence; or
 - (ii) supervised the maintenance of aircraft relevant to the ratings held in an executive capacity; or
 - (iii) performed a technical training function relevant to the ratings held in a certificated training organisation; or
 - (iv) been engaged in any combination of the activities specified in subparagraph (i), (ii), or (iii); or
- (2) passed an oral examination covering the person's understanding and practical application of the duties and responsibilities exercised by the holder of an aircraft maintenance engineer licence; or
- (3) completed recurrent training in order to be proficient relevant to the ratings held, conducted by—
 - (i) the aircraft manufacturer; or
 - (ii) a Part 141, Part 145, or Part 147 certificated training organisation; or
 - (iii) a competent authority of a foreign Contracting State acceptable to the Director; or
 - (iv) the Director.

Subpart C—Aircraft Maintenance Engineer Ratings

Rule 66.103 is revoked and replaced with the following rule:

66.103 Eligibility requirements

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

- (1) hold a current aircraft maintenance engineer licence in the relevant category as specified in rule 66.5(1); and
- (2) have completed 6 months practical experience on the type or group of aircraft for which the rating is sought or other similar experience acceptable to the Director; or
- (3) have successfully completed examinations acceptable to the Director; or
- (4) have successfully completed a period of training acceptable to the Director conducted by—
 - (i) the manufacturer; or
 - (ii) a Part 141, Part 145, or Part 147 certificated training organisation; or
 - (iii) a competent authority of a foreign contracting State acceptable to the Director; or
 - (iv) the Director.

Subpart E—Certificate of Inspection Authorisation

Rule 66.203 is revoked and replaced with the following rule:

66.203 Eligibility requirements

(a) To be eligible for a certificate of inspection authorisation a person must hold a rated aircraft maintenance engineer licence issued under the Act and this Part, or an equivalent Australian aircraft maintenance engineer licence registered in New Zealand, in—

- (1) both aeroplane and powerplant categories; or
 - (2) both rotorcraft and powerplant categories; or
 - (3) electrical group 1, instrument groups 1 and 2, and radio groups 1, 2, and 3 categories.
- (b) A person referred to in paragraph (a) must, at the time of the application have—
- (1) held the licence for a period of at least 5 years; and
 - (2) met the recent experience requirement prescribed in rule 66.57 for a period of at least 5 years; and
 - (3) within the immediately preceding 2 years—
 - (i) exercised the privileges of an aircraft maintenance engineer licence for a period of not less than 6 months; or
 - (ii) supervised, in an executive capacity, 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 rules, conducted by—
 - (i) the holder of a maintenance training organisation certificate or a restricted maintenance training organisation certificate issued under the Act and Part 147; or
 - (ii) the Director.

Rule 66.205 is revoked and replaced with the following rule:

66.205 Privileges and limitations

- (a) Subject to paragraphs (b), (c), and (d), a certificate of inspection authorisation entitles the holder to—

- (1) perform a review of airworthiness in accordance with Part 43, Subpart D; and
 - (2) certify conformity in accordance with the technical data listed in Appendix D to Part 21 after completion of major repairs and major modifications in accordance with Part 43, Subpart E.
- (b) A person must not exercise the privileges specified in paragraph (a) unless that person has available and uses the equipment, facilities, and inspection data necessary to properly inspect airframes, powerplants, propellers, or any related part or component.
- (c) A holder of a licence in electrical group 1, instrument groups 1 and 2, and radio groups 1, 2, and 3 is restricted to certify conformity in accordance with the technical data listed in Appendix D to Part 21 after completion of avionics major repairs and major modifications.
- (d) To avoid doubt a holder of a licence in electrical group 1, instrument groups 1 and 2, and radio groups 1, 2, and 3 must not certify conformity for any surrounding structure that requires modification.

Rule 66.207 is revoked and replaced with the following rule:

66.207 Recent experience requirements

The holder of a certificate of inspection authorisation must not exercise the privileges of that certificate unless:

- (1) within the preceding 12 months, the holder has—
 - (i) performed 4 annual reviews of aircraft maintenance in accordance with Part 43, Subpart D; or
 - (ii) certified 4 aircraft or components for conformity with the data listed in Appendix D to Part 21 after completion of major repairs or major modifications; or
 - (iii) performed a combination of the activities specified in subparagraphs (i) and (ii); or

- (iv) successfully completed a refresher course comprising at least 8 hours instruction that is acceptable to the Director; or
 - (v) successfully completed an examination acceptable to the Director; and
- (2) within the immediately preceding 2 years, the holder has for a period of at least 6 months met the recent experience requirements of rule 66.57.

New rules 66.209 and 66.211 are inserted after rule 66.207:

66.209 Transitional provisions

The following provisions come into effect on 1 September 2021:

- (a) rule 66.11(b);
- (b) rule 66.57(3);
- (c) rule 66.103(4);
- (d) Appendix B.1(d) and (e); and
- (e) Appendix C.

66.211 Savings provisions

- (a) The holder of a valid licence issued under the Civil Aviation Regulations 1953 that existed immediately before 1 September 2020 —
- (1) is deemed to have been issued an aircraft maintenance engineer licence by the Director under the Act and this Part; and
 - (2) may exercise the privileges of an aircraft maintenance engineer licence specified in rule 66.55; and
 - (3) must comply with the limitations and recent experience requirements specified in rules 66.55 and 66.57.

(b) The holder of a valid Type I (major), Type II (minor), or group or type rating issued under the Civil Aviation Regulations 1953 that existed immediately before 1 September 2020 —

- (1) is deemed to have been issued an aircraft maintenance engineer group or type rating by the Director under the Act and this Part; and
- (2) may exercise the privileges of the rating specified in rule 66.105.

(c) The holder of a valid licence with a rating issued under Appendix B.1 Group 4 that existed immediately before 1 September 2020, may continue to exercise the privileges of the rating.

Appendix A is revoked and the Appendix letter is reserved:

Appendix A—*[Reserved]*

Appendix B.1 is revoked and replaced with the following Appendix:

Appendix B—Group and Type Ratings

B.1 Groups

Ratings may be issued in the following Groups:

(a) Aeroplane

Group 1: Unpressurised aeroplanes with fixed landing gear not exceeding 5700 kg, other than Group 3:

Group 2: Unpressurised aeroplanes other than Group 1 and Group 3:

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

Group 4: *[Revoked and the Group number '4' is Reserved]*

Group 5: Pressurised aeroplanes not exceeding 5700kg MCTOW, by individual type:

Group 6: Pressurised aeroplanes exceeding 5700kg MCTOW, by individual type.

(b) Rotorcraft

Group 1: Piston engine rotorcraft:

Group 2: Single turbine engine rotorcraft:

Group 3: Twin turbine engine rotorcraft, by individual type:

(c) Powerplant

Group 1: Normally aspirated piston engines:

Group 2: Turbocharged or supercharged engines:

Group 3: All turbine engines, by individual type:

(d) Electrical - complex systems require type-specific ratings

Group 1: Electrical systems in 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 frequency wild alternators installed for secondary services; or
- (ii) constant frequency AC from alternators driven by constant speed drive units:

(e) Instrument - complex systems require type-specific ratings

Group 1: General aircraft instrument systems; basic flight instrument systems; oxygen systems, cabin pressurisation and air conditioning systems:

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:

(f) Radio – complex systems require type-specific ratings

Group 1: Airborne communication systems including but not limited to UHF, VHF, HF, CVR, audio and ELT:

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

Group 3: Airborne surveillance systems including weather radar, doppler, radio altimeter, DME, transponder, ADS-B systems, 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.

Appendix C is revoked and replaced with the following Appendix:

Appendix C—Limited Privileges

(a) A 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 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 of 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 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 radio systems:
 - (5) replacement of line replaceable units:
 - (6) re-calculate weight and balance.
- (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) maintenance of radio systems:
- (5) compensation and component changing of direct reading compasses.