

## Part 1 Preliminary

### 66.1A Name of instrument

This instrument is the *Part 66 Manual of Standards (MOS)*.

### 66.1 Scope

- (a) This is the MOS for Part 66 of the *Civil Aviation Safety Regulations 1998 (CASR 1998)*.
- (b) This MOS sets out the requirements for the issue of an aircraft engineer licence and other requirements or privileges associated with the licence.

### 66.5 Definitions

- (a) Unless otherwise defined in this MOS, words and phrases have the same meaning as in Part 66 of CASR 1998.
- (b) In this MOS:

**AMC/GM for CASR Part 66** means the CASA publication titled *Acceptable Means of Compliance (AMC) and Guidance Material (GM) CASR Part 66*, as existing from time to time.

**AME licence** means an aircraft maintenance engineer (**AME**) licence under regulation 31 of CAR 1988 as in force immediately before 27 June 2011.

**APU** means auxiliary power unit.

**ATA** means Air Transport Association of America.

*Note* ATA is a publication referencing standard, commonly used for all commercial aircraft documentation.

**avionic LRU**, or **avionic line replaceable unit**, is an aircraft avionic part that satisfies all of the following requirements:

1. it must have no mechanical input from, or output to, another part or mechanism;
2. it must contain only electrical, electronic, instrument or radio parts, or software, or a combination of any such part or parts and software, designed to provide control, monitor or display functions, or a combination of such functions;
3. it must not require any of the following in order to be installed, secured or connected to the aircraft:
  - (i) specialist knowledge or techniques;
  - (ii) specialised equipment;
  - (iii) rigging, or functional testing or adjustment, using specialised equipment external to the aircraft or brought on board the aircraft, to ensure that it is functioning properly.

**avionic system** means an aircraft system, as specified in Table 1 in section 66.A.20, which transfers, processes, displays or stores analogue or digital data, using data lines, data buses, coaxial cables, or wireless or other data transmission media, and includes the system's components and connectors.

*Note* The following are examples of avionic systems:

1. auto flight;
2. communication, radar and navigation;
3. instruments;
4. in-flight entertainment systems;

5. integrated modular avionics (IMA);
6. cabin systems;
7. on-board maintenance systems;
8. information systems;
9. fly-by-wire systems (related to flight control systems (ATA27));
10. fibre-optic control systems.

**Basic Practical Experience Logbook** means the *CASA Part 66 Basic Practical Experience Logbook*, as it exists from time to time.

**CAR 1988**, or **CAR**, means the *Civil Aviation Regulations 1988*.

**CASR 1998**, or **CASR**, means the *Civil Aviation Safety Regulations 1998*.

**CAO** means Civil Aviation Order.

**category B1 modular licence** means a category B1 licence granted:

- (a) under regulation 66.026 of CASR subject to the exclusion of at least 1 aircraft system or subset of an aircraft system; and
- (b) after the commencement of the *Part 66 Manual of Standards and Part 147 Manual of Standards Amendment Instrument 2023 (No. 1)*.

**category B2 modular licence** means a category B2 licence granted:

- (a) under regulation 66.026 of CASR subject to the exclusion of at least 1 aircraft system or subset of an aircraft system; and
- (b) after the commencement of the *Part 66 Manual of Standards and Part 147 Manual of Standards Amendment Instrument 2023 (No. 1)*.

**cell**, when mentioned for a table, means an individual, undivided unit (regardless of its size) into which a column of the table is subdivided.

**COA holder** means a person who holds a certificate of approval under regulation 30 of CAR 1988.

**electrical system** means the aircraft electrical power supply source, plus the distribution system to the different components contained in the aircraft and relevant connectors. Electrical systems are specified in Table 1 in section 66.A.20. When working on cables (including coaxial cables) and connectors which are part of these electrical systems, the following typical practices are included in the privileges:

1. continuity, insulation and bonding techniques and testing;
2. crimping and testing of crimped joints;
3. connector pin removal and insertion;
4. wiring protection techniques.

**large aircraft** has the same meaning as in the CASR Dictionary.

**lighting systems** are part of the electrical system.

**MEA** means manufacturing and engineering assessment.

*Note* MEA is part of a code assigned to each nationally endorsed Australian training package to identify the particular industry the training package covers.

**modular licence** means a category B1 modular licence or a category B2 modular licence.

**Modular Licence Basic Practical Experience Logbook** means the *CASA Part 66 Modular Licence Basic Practical Experience Logbook*, as it exists from time to time.

**MTO** means maintenance training organisation under Part 147 of CASR 1998.

**non-rated aircraft** has the same meaning as in paragraph (b) of the definition of **aircraft type** in regulation 66.010 of CASR 1998.

**Part 66 licence** means an aircraft engineer licence issued under Part 66 of CASR 1998.

**powerplant** means an aircraft engine.

**practical consolidation training (PCT)** means a practical training course:

1. conducted by a maintenance training organisation in accordance with section 66.A.50 and Appendix III; and
2. that is approved in writing by CASA.

*Note* In considering whether to approve a PCT course, CASA will take into account whether the course elements reflect the elements of a best practice PCT program as described in Advisory Circular 147-1 *Practical Consolidation Training*.

**recognition of prior learning (RPL)** for licence category training, aircraft type training, category A aircraft task training and foreign or military qualifications under Part 66 of CASR 1998:

- (a) has the same meaning given by section 147.A.07 of the Part 147 Manual of Standards (as amended); and
- (b) may be prescribed by CASA, a Part 147 Maintenance Training Organisation (**MTO**) or a Part 145 Approved Maintenance Organisation (**AMO**).

**regulation 31** means paragraphs 31 (4) (b), (c) and (e) of CAR 1988, as in force immediately before 27 June 2011, and includes:

1. regulation 31C of CAR 1988, as in force immediately before 27 June 2011; and
2. each of the following CAOs, as in force immediately before 27 June 2011:
  - (i) CAO 100.91;
  - (ii) CAO 100.92;
  - (iii) CAO 100.93;
  - (iv) CAO 100.94;
  - (v) CAO 100.95; and
3. each of the following Specification instruments for an associated CAO, as in force or existing immediately before 27 June 2015:
  - (i) CASA 202/14 for CAO 100.91;
  - (ii) CASA 203/14 for CAO 100.92;
  - (iii) CASA 204/14 for CAO 100.93;
  - (iv) CASA 205/14 for CAO 100.94;
  - (v) CASA 206/14 for CAO 100.95; and
4. each of the following Airworthiness Advisory Circulars (**AAC**) with which its associated CAO was expressed to be read, as it existed immediately before 27 June 2015:
  - (i) AAC Part 9-91 for CAO 100.91;
  - (ii) AAC Part 9-92 for CAO 100.92;
  - (iii) AAC Part 9-93 for CAO 100.93;

- (iv) AAC part 9-94 for CAO 100.94;
- (v) AAC Part 9-95 for CAO 100.95.

**simple test** means a test described in maintenance data that meets all of the following criteria:

1. 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;
2. the outcome of the test is a unique go/no-go indication or parameter. No interpretation of the test result or interdependence of different values is allowed.

**small aircraft** has the same meaning as in the CASR Dictionary.

**subsystem** means a system which, while capable of functioning on its own, is part of a larger system and includes, for this MOS:

1. the electrical subsystem comprised of electrical parts, appliances and motors, within mechanical, powerplant and structural systems; or
2. the instrument subsystem comprised of avionic systems within mechanical, powerplant and structural systems.

**this MOS** means the Part 66 Manual of Standards.

**troubleshooting** means the published approved fault isolation maintenance procedures and actions outlined in maintenance data, used as necessary in order to identify the root cause of a defect or malfunction. It may include the use of BITE or external test equipment. Troubleshooting may involve avionic LRU changes, however, it does not involve multiple avionic LRU changes in pursuit of a system fault, unless the changes are made in accordance with a published approved fault isolation maintenance procedure (e.g. Troubleshooting Manual, Fault Isolation Manual procedure).

- (c) Unless the contrary intention appears, the term **carry out maintenance** includes, within its normal meaning, both the supervision of maintenance and carrying out the physical tasks of maintenance.

## **66.6 Meaning of hold, or obtain, a unit of competency**

A person is taken to hold, or have obtained, a unit of competency under this MOS if an MTO:

1. assesses the person as competent in the unit of competency; and
2. gives the person a statement of attainment, or similar document, stating the person holds the unit of competency.

### **66.A.1 Aircraft engineer licence**

- (a) This MOS specifies the requirements for the issue of an aircraft engineer licence in 1 or more of the following categories:
  1. Category A;
  2. Category B1;
  3. Category B2;
  4. Category C.

- (b) Categories A and B1 may be endorsed with the following subcategories for maintenance on combinations of aeroplanes, helicopters, turbine and piston engines:
  - 1. A1 and B1.1 aeroplanes turbine;
  - 2. A2 and B1.2 aeroplanes piston;
  - 3. A3 and B1.3 helicopters turbine;
  - 4. A4 and B1.4 helicopters piston.

## **Part 2 Aircraft engineer licences for type-rated aircraft etc.**

### **66.A.4 Certain type-rated aircraft types and endorsements etc.**

- (a) Subject to paragraph (d), for paragraph 66.015 (2) (e) of CASR 1998, an aircraft type specified in a cell in column 2 of a table in Appendix IX, with a type certificate holder (if any) mentioned in the corresponding cell in column 1, and a commercial designation (if any) mentioned in the corresponding cell in column 3, is specified as a type rated aircraft type for an aircraft engineer licence in Category B1, B2 or C.
- (b) Subject to paragraph (d), for an aircraft type specified in a cell in column 2 of a table in Appendix IX, an aircraft engineer licence in Category B1, B2 or C may be endorsed with the type rating endorsement mentioned in the corresponding cell in column 4.
- (c) Each mention of “Various” in a cell in column 2 of a table in Appendix IX is to be read as “A small/non-rated aircraft with the engine mentioned in the corresponding cell in column 4.”.
- (d) If a Note referred to in a cell in column 4 of a table in Appendix IX contains the statement: “This is a rule.”, the contents of the Note have legal effect for the cell in the table as if they were contained in a paragraph of this section.

### **66.A.10 Application — form**

An application for an aircraft engineer licence, or an application for a variation of an aircraft engineer licence, must be made to CASA in the form approved by CASA.

### **66.A.20 Privileges**

- (a) The maintenance certification and certificate of release to service privileges of each category of licence are as follows:
  - 1. A person who holds a Category A licence endorsed with a subcategory may perform maintenance certification for that subcategory maintenance if:
    - (i) the person carried out the maintenance; and
    - (ii) the maintenance is maintenance of a kind mentioned in Appendix II of the Part 145 MOS;
  - 2. A person who holds a Category A licence endorsed with a subcategory may issue a certificate of release to service for maintenance if:
    - (i) the maintenance was carried out by the person; or
    - (ii) the maintenance and its maintenance certification were carried out by another person who holds a Category A licence with the appropriate subcategory; and
    - (iii) the maintenance was maintenance of a kind mentioned in Appendix II of the Part 145 MOS; and