



**Australian Government**

# **MEA50115 Diploma of Aeroskills (Avionics)**

**Release 1**

# **MEA50115 Diploma of Aeroskills (Avionics)**

## **Modification History**

Release 1 - New qualification

## **Qualification Description**

The qualification applies to individuals seeking the grant of a Civil Aviation Safety Authority (CASA) B2 Aircraft Maintenance Engineer Licence covering the supervision, performance and certification of avionic maintenance on aircraft that are type-rated by CASA for maintenance purposes.

The qualification satisfies CASA requirements for the grant, under Civil Aviation Safety Regulation (CASR) Part 66, of Aircraft Maintenance Engineer Licence B2 when the skills and knowledge requirements align with CASA syllabus requirements in the Companion Volume CASA Interface and training has been delivered in accordance with the requirements of CASR Part 147. It consists of:

- common and technical stream units required at Certificate IV level in the aircraft maintenance stream
- additional Diploma level common and imported units that cover supervisor level work health and safety (WHS) competency plus competencies required by CASA for the exercise of licence privileges
- Diploma level avionic technical stream units covering advanced fault diagnosis and aircraft weight and balance calculation.

Credits are also provided towards the MEA50315 Diploma of Aviation Maintenance Management (Avionics) and the MEA60115 Advanced Diploma of Aviation Maintenance Management (Avionics).

## **Entry Requirements**

Not applicable

## Packaging Rules

To be awarded the MEA50115 Diploma of Aeroskills (Avionics) competency must be demonstrated in **thirty-two (32)** or **thirty-three (33)** units of competency, depending on the choice of elective specialist units. These units consist of:

- **eight (8)** core Diploma level (CASA licensing) units
- **twenty-three (23)** core common and technical stream units from Certificate IV that are mandatory for a CASA B2 Licence
- either elective Group A (**two (2)** units) or Group B (**one (1)** unit).

### Core units of competency

- Complete all **eight (8)** of the Diploma level common, imported and avionic technical stream units listed below.

Unit code	Unit title	Prerequisites
MEA111	Perform administrative processes to prepare for the certification of civil aircraft maintenance	All Cert IV units listed below (See Note 1)
MEA112	Plan and implement civil aircraft maintenance activities	All Cert IV units listed below (see Note 1)
MEA113	Supervise civil aircraft maintenance activities and manage human resources in the workplace	All Cert IV units listed below (see Note 1)
MEA116	Apply work health and safety procedures at supervisor level in aviation maintenance	
MEA142	Manage self in the aviation maintenance environment	
MEA235	Perform advanced troubleshooting in aircraft avionic maintenance	All Cert IV units listed below (see Note 1)
MEA241	Perform aircraft weight and balance calculations as a result of modifications	All Cert IV units listed below (see Note 1)
MSAENV472B	Implement and monitor environmentally sustainable work practices	

Note 1: While the units do not have specific prerequisite units it is a CASA licensing requirement that competency not be sought until all of the Certificate IV units listed below have been attained.

- Plus the **twenty-three (23)** Certificate IV common and avionic/mechanical technical stream units listed below.

Unit code	Unit title	Prerequisites
MEA101	Interpret work health and safety practices in aviation maintenance	
MEA103	Plan and organise aviation maintenance work activities	MEA101, MEA105 MEA107, MEA108
MEA105	Apply quality standards applicable to aviation maintenance processes	MEA101, MEA107
MEA107	Interpret and use aviation maintenance industry manuals and specifications	
MEA108	Complete aviation maintenance industry documentation	MEA105
MEA109	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance	MEA105, MEA108
MEA118	Conduct self in the aviation maintenance environment	
MEA148	Apply mathematics and physics in aviation maintenance	
MEA201	Remove and install miscellaneous aircraft electrical hardware/components	MEA101, MEA103 MEA105, MEA107 MEA108, MEA109
MEA203	Remove and install advanced aircraft electrical system components	MEA201
MEA205	Remove and install advanced aircraft instrument system components	MEA201
MEA206	Remove and install aircraft basic radio communication and navigation system components	MEA201
MEA207	Remove and install aircraft electronic system components	MEA201

Unit code	Unit title	Prerequisites
MEA223	Inspect aircraft electrical systems and components	MEA203, MEA246
MEA224	Inspect aircraft instrument systems and components	MEA205, MEA246
MEA226	Inspect aircraft electronic systems and components	MEA207, MEA246
MEA227	Test and troubleshoot aircraft electrical systems and components	MEA223
MEA228	Test and troubleshoot aircraft instrument systems and components	MEA224, MEA226
MEA229	Test and troubleshoot aircraft radio frequency navigation and communications systems and components	MEA226
MEA232	Test and troubleshoot aircraft pulse systems and components	MEA226, MEA246
MEA246	Fabricate and/or repair aircraft electrical hardware or parts	MEA201, MEA260
MEA260	Use electrical test equipment	MEA101, MEA103 MEA105, MEA107 MEA108, MEA109
MEA301	Perform aircraft flight servicing	MEA101, MEA103 MEA105, MEA107 MEA108, MEA109

### Elective units of competency

Plus specialist elective units from Group A or Group B as defined below.

#### Group A

- Complete the **two (2)** units listed.

Unit code	Unit title	Prerequisites
MEA225	Inspect fixed wing aircraft automatic flight control systems and components	MEA207, MEA246
MEA230	Test and troubleshoot fixed wing aircraft automatic flight control systems and components	MEA225, MEA246

**Group B**

- Complete the **one (1)** unit listed.

Unit code	Unit title	Prerequisites
MEA231	Inspect, test and troubleshoot rotary wing aircraft automatic flight control systems and components	MEA207, MEA246

**Qualification Mapping Information**

Supersedes and is equivalent to MEA50111 Diploma of Aeroskills (Avionics)

**Links**

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>