



Australian Government

MEA265 Remove and install general aircraft electrical hardware

Release: 2

MEA265 Remove and install general aircraft electrical hardware

Modification History

Release 2. Equivalent to MEA265 Remove and install general aircraft electrical hardware with amended prerequisite codes.

Application

This unit of competency requires application of hand skills in the removal and installation from fixed or rotary wing aircraft of electrical hardware, including items of general electrical hardware, that are within the privileges of the Aircraft Maintenance Engineer A Licence during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit forms part of the Civil Aviation Safety Authority (CASA) requirement for the granting of the chosen Aircraft Maintenance Engineer A Licence under Civil Aviation Safety Regulation (CASR) Part 66, in accordance with the licensing provisions in the Companion Volume Implementation Guide.

Pre-requisite Unit

MEA107	Interpret and use aviation maintenance industry manuals and specifications
MEA154	Apply work health and safety practices in aviation maintenance
MEA155	Plan and organise aviation maintenance work activities
MEA156	Apply quality standards during aviation maintenance activities
MEA157	Complete aviation maintenance industry documentation
MEA158	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

Competency Field

Aviation maintenance

Unit Sector

Elements and Performance Criteria

Elements describe the Performance criteria describe the performance needed to

essential outcomes.

demonstrate achievement of the element.

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|---|---|
| 1. Remove general aircraft electrical hardware | 1.1 System is rendered safe and prepared in accordance with the applicable maintenance manual and isolation tags are fitted, where necessary, to ensure personnel safety |
| | 1.2 Removal of electrical hardware is carried out in accordance with the applicable maintenance manual while observing all relevant work health and safety (WHS) requirements |
| | 1.3 Required maintenance documentation is completed and processed in accordance with standard enterprise procedures |
| | 1.4 Removed components are tagged, packaged or discarded in accordance with specified procedures |
| 2. Install general aircraft electrical hardware | 2.1 Electrical hardware components to be installed are checked to confirm correct part numbers, modification status, serviceability and shelf life |
| | 2.2 Physical installation of electrical hardware is carried out in accordance with the applicable maintenance manual |
| | 2.3 System is reinstated to correct physical condition in preparation for testing, as necessary |
| | 2.4 Required maintenance documentation is completed and processed in accordance with standard enterprise procedures |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Removal and installation of electrical hardware includes one or more of the

- Bolted
- Plug connectors

following connection methods:**Electrical hardware includes:**

- Switches
- Relays
- Lamps
- Terminal blocks
- Current limiters
- Circuit breakers
- Fuses
- Sockets
- Potentiometers
- Capacitors
- Inductors
- Magnetic amplifiers
- Transformers
- Rheostats
- Miscellaneous sensors and minor components hard mounted throughout the aircraft
- Busbars
- Lugs
- Ferrules
- Splices
- Connectors and electrical, electronic cables and looms
- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

Procedures and requirements include:**Unit Mapping Information**

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>