



Australian Government

MEA201 Remove and install miscellaneous aircraft electrical hardware/components

Release: 2

MEA201 Remove and install miscellaneous aircraft electrical hardware/components

Modification History

Release 2. Equivalent to MEA201 Remove and install miscellaneous aircraft electrical hardware/components with amended prerequisite codes.

Application

This unit of competency requires application of skills in basic soldering and in crimping associated with the removal and installation of miscellaneous electrical hardware and components fitted to fixed or rotary wing aircraft during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit is part of all Avionic Certificate IV training pathways and is also part of the Mechanical Aircraft Maintenance Engineer licensing pathway.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Australian Defence Force (ADF) and the Civil Aviation Safety Authority (CASA).

Where a CASA licensing outcome is sought this unit forms part of the CASA requirement for the granting of the chosen maintenance certification 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 essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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

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.

Hardware connection methods include:

- Bolted
- Soldered
- Plug connectors

Types of electrical hardware include:

- Switches, relays, lamps, terminal blocks, current limiters, circuit breakers, fuses, sockets, potentiometers, capacitors, inductors, magnetic amplifiers, transformers, rheostats, resistors and diodes, miscellaneous sensors and minor components hard mounted throughout the aircraft, busbars, lugs, ferrules, splices, connectors and electrical, electronic cables and looms

Basic soldering and crimping

- The work will include the application of basic soldering and crimping skills associated with removal and installation of electrical hardware.

Procedures and requirements include:

- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

Unit Mapping Information

Release 2. Equivalent to MEA201 Remove and install miscellaneous aircraft electrical hardware/components

Links

Companion Volume implementation guides are found in VETNet -

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