



Australian Government

MEA238 Perform routine removal and installation of miscellaneous aircraft electrical hardware/components

Release: 2

MEA238 Perform routine removal and installation of miscellaneous aircraft electrical hardware/components

Modification History

Release 2. Equivalent to MEA238 Perform routine removal and installation of miscellaneous aircraft electrical hardware/components with amended prerequisite codes.

Application

This unit of competency requires application of hand skills and relevant maintenance publications and documentation to remove and install a range of electrical components and electrical hardware under the guidance of a qualified person, including both on and off-aircraft work during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit is part of the Avionic Certificate II training pathway. It covers the competencies required for the removal and installation under qualified person guidance of a range of aircraft electrical components and items of hardware that can have bolted, soldered or plug connections.

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).

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.
1. Prepare to remove aircraft electrical hardware	1.1 The removal task is planned under qualified person guidance using applicable maintenance documentation and enterprise procedures 1.2 System safety is confirmed with the qualified person
2. Remove aircraft electrical hardware	2.1 Physical removal of electrical hardware is carried out in accordance with enterprise procedures and applicable maintenance documentation while observing all relevant work health and safety (WHS) requirements
3. Complete aircraft electrical hardware removal process	3.1 Required documentation is accurately completed and correctly processed in accordance with enterprise procedures 3.2 Removed components are tagged, packaged or discarded in accordance with specified procedures
4. Prepare to install aircraft electrical hardware	4.1 The installation task is planned under qualified person guidance using applicable maintenance documentation and enterprise procedures 4.2 Electrical hardware components to be installed are checked to confirm correct part numbers
5. Install aircraft electrical hardware	5.1 Physical installation of electrical hardware is carried out in accordance with enterprise procedures and applicable maintenance documentation
6. Complete aircraft electrical hardware installation process	6.1 Required documentation is accurately completed and correctly processed in accordance with 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.

Electrical hardware includes:

- 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
- Oxygen systems and components, and fuel tank components and integrated hardware are not included

Unit Mapping Information

Release 2. Equivalent to MEA238 Perform routine removal and installation of miscellaneous aircraft electrical hardware/components

Links

Companion Volume implementation guides are found in VETNet -

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