



Australian Government

**Assessment Requirements for
MEAAVI0033 Perform routine removal
and installation of miscellaneous aircraft
electrical hardware or components**

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Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Range of Conditions removed, and relevant information moved to Assessment Requirements. Assessment Requirements clarified. Supersedes and is equivalent to MEA238 Perform routine removal and installation of miscellaneous aircraft electrical hardware/components.

Performance Evidence

There must be evidence the candidate has completed all the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- remove and install miscellaneous aircraft electrical hardware components under guidance, both on and off-aircraft work during scheduled or unscheduled maintenance, on at least five of the electrical components or hardware that are applicable to the enterprise from the following list:
 - 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
- prepare and terminated electrical cables to aircraft industry standards for the components or hardware being removed and installed, using each of the following techniques:
 - crimping techniques
 - soldering techniques

- solder sleeve joints
- identify aircraft wire markings, terminal block identification and plug/socket pin numbering systems for the components or hardware being removed and installed
- install electrical loom and harness equipment at least once, ensuring minimum bends are maintained, cable is not in tension, plugs are correctly aligned, security of route ensures no chaffing of insulation, adequate clipping and cable ties have been utilised and construction complies with aircraft industry standards
- positively identify miscellaneous electrical hardware and/or components selected for assessment
- apply cleanliness requirements and safety precautions at all times, and as relevant to the components or hardware being removed and installed and demonstrated awareness of electrostatic discharge procedures.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- component attachment methods
- electrostatic discharge procedures
- connection of hardware, plugs and terminals points
- wire marking, terminal block identification and plug/socket numbering systems
- Work health and safety (WHS) practices for removal and installation of miscellaneous aircraft electrical hardware or components
- maintenance documentation for miscellaneous aircraft electrical hardware or components.

Assessment Conditions

The following conditions of assessment represent the requirements of the regulators (DASA and CASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in removing and installing miscellaneous aircraft electrical hardware or components. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials relevant to removing and installing miscellaneous aircraft electrical hardware or components
 - tools and equipment specified in maintenance manuals
 - general-purpose tools and items of ground support and test equipment required for removing and installing miscellaneous aircraft electrical hardware or components.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

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