



Australian Government

Assessment Requirements for MEAAVI0056 Repair and overhaul aircraft electrical and electro-mechanical components

Release: 1

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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 MEA286 Repair or overhaul aircraft electrical/electro-mechanical 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:

- repair and overhaul aircraft electrical and electro-mechanical components during scheduled or unscheduled maintenance, under routine supervision, on at least one component from each of the following groups:
 - motors, generators and alternators
 - static inverters, transformer rectifier units (TRU) and regulators
 - actuators, solenoids and shutoff valves
 - bus bars, circuit breakers, connectors, electrical looms and fans.
- recognise the serviceability state and repair or overhaul requirements for:
 - alternating current (AC) and direct current (DC) motors, generators and alternators
 - static inverters
 - TRU
 - regulators/control units
 - actuators
 - solenoids and shutoff valves
 - engine ignition/starting components
- perform functional testing by applying logic processes, and using test equipment and appropriate wiring diagrams and manuals to isolate component faults and assess post-repair or overhaul serviceability
- correctly disassemble, inspect and repairing/replacing/modifying component parts and assembling components listed above
- apply testing procedures, cleanliness requirements and safety precautions at all times and as relevant to the systems or components being maintained.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- component and system operation

- the basic function and operation of components listed below to enable testing for fault isolation or confirmation, to determine repair or overhaul requirements, and serviceability status post repair or overhaul:
 - AC and DC motors, generators and alternators
 - static inverters
 - TRU
 - regulators/control units
 - actuators
 - solenoids and shutoff valves
 - engine ignition/starting components
- basic principles and functions relating to components listed above and associated with:
 - AC and DC power generation
 - circuit theory
 - analogue fundamentals
- electro-mechanical interface
- work health and safety (WHS) requirements for repairing or overhauling aircraft electrical or electro-mechanical components
- maintenance publications for repairing and overhauling aircraft electrical or electro-mechanical 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 repairing or overhauling aircraft electrical or electro-mechanical components. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - required workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials relevant to repairing or overhauling aircraft electrical or electro-mechanical components
 - tools and equipment specified in maintenance documentation
 - general and special-purpose tools and test equipment required for repairing and overhauling aircraft electrical or electro-mechanical 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>