



Australian Government

Assessment Requirements for MEAAVI0054 Repair and overhaul aircraft instrument system 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 MEA284 Repair or overhaul aircraft instrument system 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 or overhaul aircraft instrument system components during scheduled or unscheduled maintenance on at least two general instrument components from the following groups:
 - mechanical instruments
 - electro-mechanical instruments
 - sensors.
- recognise the serviceability state and repair or overhaul requirements for:
 - mechanical instruments
 - electro-mechanical instruments
 - instrument sensors
- perform testing by applying logic processes, and using test equipment and appropriate wiring diagrams and manuals to isolate components faults and assess post-repair or overhaul serviceability
- 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 the following components to enable testing for fault isolation/confirmation, to determine repair or overhaul requirements, and serviceability status post-repair or overhaul:
 - mechanical instruments
 - electro-mechanical instruments
 - instrument sensors
- basic principles and functions relating to the above components and associated with:
 - alternating current (AC) and direct current (DC) synchronous systems

- servomechanisms
- gyroscopes
- vacuum and pressure-based indication methods (pitot/static and pressurisation)
- advanced analogue fundamentals
- electro-mechanical sensor signal generation
- work health and safety (WHS) requirements for repairing or overhauling aircraft instrument system components
- maintenance publications for repairing or overhauling aircraft instrument system 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 instrument system 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 instrument system components
 - tools and equipment specified in maintenance documentation
 - general and special-purpose tools and test equipment.

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>