



Australian Government

Assessment Requirements for MEAAVI0050 Inspect, test and troubleshoot flight management systems and 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 MEA280 Inspect, test and troubleshoot flight management systems and 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:

- perform inspection, testing and troubleshooting of flight management systems and components during scheduled or unscheduled maintenance on a system and on at least one major system component of each of the following:
 - flight management computer
 - control display unit
 - database unit
 - GPS sensor (may be omitted if not applicable to enterprise)
 - GPS antenna (may be omitted if not applicable to enterprise).
- recognise system and component defects, external damage, correct/incorrect installation, connection of plugs, terminations, and attachment hardware (including cabling or harnesses) for the system components being maintained
- perform functional testing by applying logic processes and using appropriate wiring diagrams and manuals to isolate flight management system malfunctions and assess post-maintenance serviceability
- apply testing procedures, cleanliness requirements and safety precautions at all times, and as relevant to the system/s being maintained.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- standard trade practices relating to tool and test equipment usage and installation or securing of system components
- electrical principles and digital electronic theory
- the basic layout (block diagram level) of flight management systems
- the operating principles of flight management computers, control display units and database units, including the interface with flight control, engine control and navigation systems
- the interface with Aircraft Communication Addressing and Reporting System and relevant Aeronautical Radio Incorporated (ARINC) specifications (avionic data bus)

- the operation of integral GPS sensors
- work health and safety (WHS) procedures for flight management systems and components
- maintenance manuals for flight management systems and components
- relevant regulatory requirements and standard procedures, including software management control
- maintenance requirements and troubleshooting procedures.

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 inspecting, testing and troubleshooting flight management systems and 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 inspecting, testing and troubleshooting flight management systems and components.
 - tools and equipment specified in maintenance documentation
 - general-purpose tools and test equipment found in most routine situations.

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>