



Australian Government

**Assessment Requirements for
MEACOM0016 Provide engineering advice
for modifying, maintaining and managing
aircraft systems**

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Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Assessment Requirements clarified. Supersedes and is equivalent to MEA128 Provide engineering advice in the modification, maintenance and management of aircraft systems.

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:

- provide independent engineering advice on the modification, maintenance and management of aircraft systems in the ADF technical airworthiness regulatory system to operators, engineering officers, or executive personnel that require:
 - assessing the battle damage of one aircraft
 - assessing the incident damage to a different aircraft.

Each assessment must include:

- repair scheme development and/or extension
- development of modification proposals
- review of maintenance requirements.

In the course of the above work, the candidate must:

- use subject matter experts and documented technical information
- provide advice orally and in writing
- provide advice that complies with regulations and organisational policy and procedures.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- regulatory and organisational policy and procedures, including:
 - modification proposal development and processing
 - aircraft recovery procedures
 - work health and safety (WHS)
 - equity, fraud and ethics requirements set out in organisational code of conduct specific to the work described in the performance evidence

- repair scheme proposal, including equivalent strength repair design and justification for extension of an approved repair scheme
- management processes for monitoring and reviewing maintenance requirements
- key features of aircraft structures, including:
 - primary and secondary structures
 - flight controls
 - fairings
 - doors
 - access panels
- key features of aircraft mechanical systems, including:
 - engines
 - landing gear systems
 - hydro-mechanical systems comprising oil, fuel, hydraulic and pneumatic
 - furnishings and safety equipment
 - propellers/rotors
- aircraft avionics systems, including:
 - electrical generation and distribution
 - electrical systems
 - electrical control and warning
 - flight instruments
 - aircraft data communication
 - automatic flight and engine control
 - communications
 - navigation
 - radar
 - life support
 - ordnance.

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 providing engineering advice for modifying, maintaining and managing aircraft systems, or a combination of on- and off-the-job assessment. 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 providing engineering advice for modifying, maintaining and managing aircraft systems

- tools, equipment, and materials required to demonstrate the performance evidence above.

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>