



Australian Government

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

Release: 1

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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.

Application

This unit describes the skills and knowledge required to provide engineering advice in the Australian Defence Force airworthiness environment on mechanical and avionics systems. The advice is provided in relation to modifying, repairing, maintaining and managing aircraft and associated mechanical and avionic systems.

The unit applies to advice provided in scheduled and unscheduled maintenance.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Civil Aviation Safety Authority (CASA) and the Defence Aviation Safety Authority (DASA).

Any other relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

MEAENG0003 Select and test engineering materials

Competency Field

Aviation maintenance management

Elements and Performance Criteria

Elements	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Provide mechanical systems advice in modification, repair, maintenance design relating to aircraft mechanical systems and structures	1.1 Provide independent technical input when requested by maintenance personnel, senior maintenance managers, and higher technical authorities 1.2 Use own aircraft mechanical systems knowledge to determine aircraft airworthiness 1.3 Use own knowledge of aircraft structures to determine aircraft airworthiness

Elements	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
2. Provide advice in the maintenance and modification design for aircraft avionics systems	2.1 Provide independent technical input when requested by maintenance personnel, senior maintenance managers, and higher technical authorities 2.2 Use aircraft avionic systems knowledge to determine aircraft airworthiness
3. Conduct and advise on aircraft recovery	3.1 Evaluate battle or incident damage and operational capability of an aircraft 3.2 Determine repair methods and/or limits 3.3 Plan an aircraft recovery

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret maintenance documentation
- Numeracy skills to interpret and communicate technical information

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEA128 Provide engineering advice in the modification, maintenance and management of aircraft systems.

Links

Companion Volume implementation guides are found in VETNet -

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