



Australian Government

MEA128 Provide engineering advice in the modification, maintenance and management of aircraft systems

Release: 2

MEA128 Provide engineering advice in the modification, maintenance and management of aircraft systems

Modification History

Release 2. Equivalent to MEA128 Provide engineering advice in the modification, maintenance and management of aircraft systems. Updated to meet training package policy requirements.

Application

This unit of competency describes the skills and knowledge required to provide engineering advice in the Defence airworthiness environment on mechanical and avionics systems. The advice is provided in relation to the modification, repair, maintenance and management of aircraft and associated mechanical and avionic systems.

The unit applies to advice provided in scheduled and unscheduled maintenance. It is applied within the airworthiness jurisdiction of the Australian Defence Force (ADF).

This unit forms part of the Civil Aviation Safety Authority (CASA) requirement for maintenance certification licences under Civil Aviation Safety Regulation (CASR) Part 66. Where a CASA licensing outcome is sought, users must refer to the licensing provisions in the MEA Aeroskills Companion Volume Implementation Guide.

Pre-requisite Unit

MEA705 Apply basic scientific principles and techniques in aeronautical engineering situations

and

MEA707 Select and test aeronautical engineering materials

OR

MEA706 Apply basic scientific principles and techniques in avionic engineering situations

and

MEA708 Select and test avionic engineering materials

Competency Field

Aviation maintenance management

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1. Provide mechanical systems advice in modification, repair, maintenance design relating to aircraft mechanical systems and structures

2. Provide advice in the maintenance and modification design for aircraft avionics systems

3. Conduct and advise an aircraft recovery

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 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
- 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
- 3.1 Evaluate battle/incident damage and operational capability of an aircraft
- 3.2 Determine repair methods and/or limits
- 3.3 Plan an aircraft recovery

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Release 2. 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.education.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>

