



Australian Government

MEA410 Maintain aircraft structure/components

Release: 2

MEA410 Maintain aircraft structure/components

Modification History

Release 2 – Assessment Conditions amended to permit assessment under simulated conditions

Application

This unit of competency requires application of hand skills and the use of maintenance publications to remove corrosion from aircraft structural materials during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

Applications include the metallic structure of fixed and rotary wing aircraft and structural components.

The unit is part of the Mechanical Aircraft Maintenance Engineer (AME) Certificate IV training pathways.

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

Pre-requisite Unit

MEA401 Inspect aircraft structures

Competency Field

Aviation maintenance

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.

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

- | | | | |
|----|------------------------------------|-----|---|
| 1. | Prepare to remove corrosion damage | 1.1 | Extent of damage is correctly assessed to assist in determining removal procedure |
| | | 1.2 | Structure is supported and prepared in accordance with the applicable maintenance manual to ensure personnel safety and freedom from damage |
| | | 1.3 | Appropriate corrosion removal procedure is identified in accordance with structural repair manual and/or |

- approved data
- 1.4 Specialist advice is obtained in establishing an approved repair scheme where a standard corrosion removal procedure cannot be identified or damage criteria is out of limits
 - 1.5 All materials and equipment required are organised
2. Remove corrosion damage
- 2.1 Corrosion removal is performed and protective coatings, sealants and jointing compounds applied in accordance with approved repair scheme ensuring that aircraft standard practices are used and process requirements are carried out including relevant work health and safety procedures and the use of material safety data sheets (MSDS) and items of personal protective equipment (PPE)
 - 2.2 Structure/component is cleaned of all waste material or contaminants
 - 2.3 Components are adjusted, where necessary, to operate within prescribed specifications
 - 2.4 Required maintenance/repair documentation is completed and processed in accordance with standard enterprise procedures
 - 2.5 Repaired components or assemblies are tagged, sealed and packaged or cradled in accordance with specified procedures, where required

Foundation Skills

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

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Corrosion removal procedures include:

- Removing corrosion by chemical and mechanical methods

Procedures and requirements include:

- Restoring protective coatings
- Applying sealants and jointing compounds
- Industry standard specified by manufacturers, regulatory authorities or the enterprise

Unit Mapping Information

Release 2 – Assessment Conditions amended to permit assessment under simulated conditions. Equivalent.

Release 1 – equivalent to MEA410C Maintain aircraft structure/components

Links

Companion Volume implementation guides are found in VETNet -

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