



Australian Government

**MEAMEC0058 Perform major
modifications and repairs to small aircraft
metal structure**

Release: 1

MEAMEC0058 Perform major modifications and repairs to small aircraft metal structure

Modification History

Release 1. Application changed. 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 MEA371 Perform major repairs and modifications to small aircraft metal structure.

Application

This unit describes the skills and knowledge required to apply hand skills and use applicable tools, maintenance publications and repair drawings to perform major repairs and modifications to small aircraft structure, including the replacement of primary structure components of both fixed and rotary wing aircraft. This may occur during scheduled or unscheduled maintenance activities and may involve individual or team-related activities.

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

MEAMEC0056 Inspect and maintain structures and related components of non-pressurised small aircraft

MEAMEC0057 Repair the structure of non-pressurised small aircraft

Competency Field

Aviation maintenance

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. Prepare to undertake repair or modification	1.1 Identify modification or repair scheme in accordance with structural repair manual or approved data 1.2 Obtain specialist advice in establishing an approved modification or repair scheme where a standard scheme cannot be identified or where damage is beyond specified limits

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.3 Organise all materials and equipment required 1.4 Support and prepare structure in accordance with the applicable maintenance manual to ensure personnel safety and freedom from damage 1.5 Use jigs, fixtures or bracing, when required, to maintain shape or alignment
2. Repair or modify aircraft structure	2.1 Perform structural repairs or modifications, in accordance with approved repair scheme or modification drawings and instructions, ensuring that aircraft standard practices are used and process requirements are carried out while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDSs) and items of personal protective equipment (PPE) 2.2 Clean work area of all waste material or contaminants 2.3 Complete required mensuration or alignment checks and adjust components, when required, to operate within prescribed specifications 2.4 Tag, seal and pack or cradle repaired components or assemblies in accordance with specified procedures, when required 2.5 Complete required maintenance documentation and process in accordance with standard enterprise procedures

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 and procedures.
- Writing skills to complete maintenance documentation.
- Numeracy skills to interpret and communicate technical information including sketches/drawings.

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 MEA371 Perform major repairs and modifications to small aircraft metal structure.

Links

Companion Volume implementation guides are found in VETNet -

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