



Australian Government

MEASTR0016 Repair and modify aircraft metal structure

Release: 1

MEASTR0016 Repair and modify aircraft metal structure

Modification History

Release 1. Unit code and title changed. Application changed. Elements and 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 MEA422 Repair/modify aircraft metal structure.

Application

This unit describes the skills and knowledge required to apply hand skills and use special tools, structural repair manuals and approved repair schemes to repair aircraft structure during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

Applications include the metal structure of fixed and rotary wing aircraft.

Fabrication of replacement components is covered by the units MEASTR0014 Fabricate basic structural components for aircraft and MEASTR0015 Fabricate advanced structural components for aircraft. Major structural disassembly is covered by unit MEASTR0017 Aircraft structure major disassembly and reassembly.

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

MEASTR0001 Inspect aircraft structures

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	1.1 Assess extent of damage to assist in determining repair procedure 1.2 Prepare and support structure in accordance with maintenance manual to ensure personnel safety and freedom from damage 1.3 Identify modification or repair scheme in accordance with structural

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	repair manual or approved data 1.4 Obtain specialist advice for approved repair scheme where a standard repair scheme cannot be identified, or damage is out of limits 1.5 Organise required materials and equipment in accordance with repair procedure
2. Modify or repair aircraft structure	2.1 Perform structural repairs in accordance with approved repair scheme, 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 (MSDS) and items of personal protective equipment (PPE) 2.2 Restore required aircraft structure sealing and surface finishes 2.3 Clean work area of all waste material or contaminants in accordance with standard enterprise procedures 2.4 Make required adjustments to components to operate within prescribed specifications 2.5 Tag, seal and package or cradle repaired components in accordance with specified procedures 2.6 Complete and process required documentation 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 manuals and repair schemes.
- Writing skills to complete documentation.
- Numeracy skills to interpret technical information including sketches and 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 MEA422 Repair/modify 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>