



Australian Government

MEASTR0005 Maintain aircraft structure and components

Release: 1

MEASTR0005 Maintain aircraft structure and components

Modification History

Release 1. 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 MEA410 Maintain aircraft structure/components.

Application

This unit describes the skills and knowledge required to apply hand skills and 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 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 remove corrosion damage	1.1 Assess extent of damage to assist in determining removal procedure 1.2 Support and prepare structure in accordance with maintenance manual to ensure personnel safety and freedom from damage 1.3 Identify appropriate corrosion removal procedure in accordance with structural repair manual and approved data 1.4 Obtain specialist advice to establish an approved repair scheme where a standard corrosion removal procedure cannot be identified or

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	damage criteria is out of limits 1.5 Organise all required materials and equipment to support removal
2. Remove corrosion damage	2.1 Perform corrosion removal and apply protective coatings, sealants and jointing compounds in accordance with approved repair scheme, using aircraft standard practices and following process requirements, including relevant work health and safety procedures (WHS) and the use of material safety data sheets (MSDSs) and items of personal protective equipment (PPE) 2.2 Clean waste materials and contaminants from structure or components in accordance with standard enterprise procedures 2.3 Restore sealing and surface finishes to operate within prescribed specifications 2.4 Complete and process required maintenance and repair documentation in accordance with standard enterprise procedures 2.5 Tag, seal and package or cradle repaired components or assemblies in accordance with specified 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.
- Numeracy skills to interpret 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 MEA410 Maintain aircraft structure/components.

Links

Companion Volume implementation guides are found in VETNet –

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

Assessment Requirements for MEASTR0005 Maintain aircraft structure and components

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Performance Evidence

There must be evidence the candidate has completed all tasks outlined in the performance criteria in this unit, and demonstrated the ability to:

- maintain aircraft structures while doing each of the following tasks during scheduled or unscheduled or maintenance:
 - removing corrosion by chemical and mechanical methods
 - restoring protective coatings
 - applying sealants and jointing compounds
- identify various aircraft metals and their basic metallurgy properties by interpretation of markings, numbering systems or visual, chemical or mechanical means to inform appropriate selection
- apply structural corrosion removal/treatment techniques
- restore aircraft structure sealing and surface finishes
- apply safety precautions and quality requirements, standards, practices and processes associated with corrosion removal, for the aircraft structures being maintained.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- methods of corrosion removal in aircraft structural metals
- types of corrosion typically found in different areas of aircraft structure
- removal of corrosion damage in integral fuel tanks and sealing of faying surfaces, including specific work health and safety procedures (WHS) and personal protective equipment (PPE) requirements, including confined space entry requirements
- surface finishes and methods of restoration, including specific WHS and PPE requirements
- relevant maintenance and structural repair manuals specifying corrosion removal limits and methods
- relevant regulatory requirements and standard procedures.
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Assessment Conditions

The following conditions of assessment represent the requirements of the regulators Defence Aviation Safety Authority (DASA) and Civil Aviation Safety Authority (CASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in maintaining aircraft structure components. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials relevant to maintaining aircraft structure components
 - tools and equipment specified in relevant aircraft maintenance manuals
 - general-purpose tools, ground support and test equipment found in most routine situations.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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