

Title	Repair or modify an aircraft metal structure		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to: prepare to repair or modify an aircraft structure; repair or modify an aircraft structure; and complete activities related to the repair or modification task.
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Classification	Aeronautical Engineering > Aircraft Structures
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Available grade	Achieved
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Guidance Information

- 1 All tasks must be carried out in accordance with enterprise procedures.
- 2 Definitions
Aircraft structure refers to aircraft metal structures such as fuselages, empennages, wings, flight control surfaces, doors and panels.
Enterprise procedures – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.

Outcomes and performance criteria

Outcome 1

Prepare to repair or modify an aircraft structure.

Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.
- 1.2 Resources are obtained and checked for serviceability or status.

 Range may include but is not limited to – publications, tools, materials, equipment, safety equipment.
- 1.3 Structure is supported to maintain alignment.

Outcome 2

Repair or modify an aircraft structure.

Performance criteria

- 2.1 Structure is disassembled to meet task requirements.
- 2.2 Damage is assessed, and defects are located.
- 2.3 Structure is modified and/or repaired.
- 2.4 Structural alignment is maintained during the repair and/or modification procedure.
- 2.5 Any defects resulting from the repair or modification procedure are rectified.
- 2.6 Inspections are obtained.

Outcome 3

Complete activities related to the repair or modification task.

Performance criteria

- 3.1 Completion activities specific to the task and work area are carried out.
 - Range may include but are not limited to – tool control, cleanliness, tidiness, return of publications, preparation for next activity.
- 3.2 Resources are checked for serviceability and returned to service or storage.
 - Range may include but is not limited to – tools, equipment, safety equipment.
- 3.3 Leftover items, parts, and materials are disposed of.
 - Range may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous.
- 3.4 Documentation is completed.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 June 1995	31 December 2016
Revision	2	7 August 1997	31 December 2016
Revision	3	8 May 2001	31 December 2016
Review	4	20 April 2006	31 December 2016
Review	5	18 June 2014	31 December 2021
Review	6	26 March 2020	N/A

Consent and Moderation Requirements (CMR) reference

0028

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact ServiceIQ qualifications@serviceiq.org.nz if you wish to suggest changes to the content of this unit standard.