Title	Assemble aircraft metal components using fasteners		
Level	4	Credits	12

Purpose	People credited with this unit standard are able to: prepare to assemble aircraft metal components; assemble aircraft metal components using fasteners; and carry out completion activities.
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Classification	Aeronautical Engineering > Aircraft Structures	
Available grade	Achieved	

Guidance Information

- 1 All tasks must be carried out in accordance with enterprise procedures.
- 2 Definition

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 assemble aircraft metal components.

Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.
- 1.2 Work area is prepared, and resources are obtained and checked for serviceability, status, and set up.

Range may include but is not limited to – publications, materials, fasteners, heat treatment states, tools, safety equipment, jigs, patterns, fixtures, environmental conditions.

- 1.3 Component parts are prepared for assembly.
 - Range clean, inspect, mark out, align.

Outcome 2

Assemble aircraft metal components using fasteners.

Performance criteria

2.1	Fastener holes are prepared.			
	Range	may include but is not limited to – determine physical clearance; drill, ream, countersink, deburr, dimple.		
2.2	Surfaces of parts are prepared.			
	Range	may include but is not limited to – clean, chemically convert, apply jointing compound, paint.		
2.3	2.3 Parts are assembled.			
	Range	may include but is not limited to – adjust to fit, fit skin clamps and/or alignment rivets, align fastener holes.		
2.4 Fasteners are installed.		e installed.		
	Range	may include but is not limited to – blind and solid shank rivets, blind and solid bolts, special fasteners.		
2.5	.5 Any defects are rectified.			
	Range	may include but is not limited to – misalignment, deflections, malformed fasteners, stress raisers, foreign objects.		
2.6	Sealant is applied.			
	Range	weather proofing, sealing.		
2.7	Inspections a	are obtained.		
Outcome	3			

Carry out completion activities.

Performance criteria

- 3.1 Component is prepared for use, storage, or transit.
 - Range may include but is not limited to locking, inhibiting, blanking, packing.
- 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 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.
- 3.5 Completion activities specific to the task and work area are carried out.
 - Range may include but is not limited to tool control, cleanliness, tidiness, return of publications, preparation for next activity.

Planned review date	31 December 2027
1	

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
Rollover and Revision	7	26 April 2024	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 Ringa Hora Services Workforce Development Council <u>qualifications@ringahora.nz</u> if you wish to suggest changes to the content of this unit standard.