

<b>Title</b>	<b>Assemble aircraft metal components using fasteners</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>12</b>

<b>Purpose</b>	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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<b>Classification</b>	Aeronautical Engineering > Aircraft Structures
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<b>Available grade</b>	Achieved
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### 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.

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### 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.
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- 1.3 Component parts are prepared for assembly.  

Range	clean, inspect, mark out, align.
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**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 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.

Range may include but is not limited to – blind and solid shank rivets, blind and solid bolts, special fasteners.

2.5 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 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 are not limited to – tool control, cleanliness, tidiness, return of publications, preparation for next activity.

<b>Planned review date</b>	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

<b>Consent and Moderation Requirements (CMR) reference</b>	0028
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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](mailto:qualifications@serviceiq.org.nz) if you wish to suggest changes to the content of this unit standard.