

<b>Title</b>	<b>Cold work holes in aeronautical aluminium alloys</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare to cold work holes in aeronautical aluminium alloys; cold work holes; and carry out task 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.
- 3 Cold working of holes by prestressing is to prepare for fastener installation, using the split sleeve, sleeveless, high interference, low interference, or combination method.

### Outcomes and performance criteria

#### Outcome 1

Prepare to cold work holes in aeronautical aluminium alloys.

#### 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 or status.  

Range	may include but is not limited to – publications, tools, materials, heat treatment states, equipment, safety equipment.
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- 1.3 Cold working equipment is calibrated to meet task requirements.

**Outcome 2**

Cold work holes.

**Performance criteria**

- 2.1 Hole is prepared for cold working.  
Range ream, de-burr.
- 2.2 Hole is cold worked.
- 2.3 Hole is inspected, and any defects located.
- 2.4 Any defects are rectified.
- 2.5 Inspections are obtained.

**Outcome 3**

Carry out task completion activities.

**Performance criteria**

- 3.1 Item is prepared for use, storage, or transit.
- 3.2 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, return of aircraft and systems to normal.
- 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.

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<b>Planned review date</b>	31 December 2027
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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	26 March 2007	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 [qualifications@ringahora.nz](mailto:qualifications@ringahora.nz) if you wish to suggest changes to the content of this unit standard.