

Title	Repair or fabricate aeronautical components using boring machines		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to: prepare to repair or fabricate aeronautical components using boring machines; set up boring machines; bore aeronautical components; prepare aeronautical components; and carry out task completion activities.
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Classification	Aeronautical Engineering > Aeronautical Machining
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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 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.
- 2 Boring machines may include – overarm, horizontal, bed, vertical, universal.

Outcomes and performance criteria

Outcome 1

Prepare to repair or fabricate aeronautical components using boring machines.

Performance criteria

- 1.1 Component identity is confirmed with documentation by comparing serial and part numbers.
- 1.2 Task is established and documented.
- 1.3 Work area is prepared, and resources are obtained.

Range may include but is not limited to – publications, materials, tooling, equipment, spares, safety equipment, environmental conditions.

Outcome 2

Set up boring machines.

Performance criteria

- 2.1 Machines are prepared.
Range condition checked, set up, adjusted, made safe to use.
- 2.2 Sequence of operations is planned and verified.

Outcome 3

Bore aeronautical components.

Performance criteria

- 3.1 Components are bored to shape.
- 3.2 Components are measured and checked for conformity with specifications.
- 3.3 Defects are reported, recorded, and rectified.
- 3.4 Inspections are obtained.

Outcome 4

Prepare aeronautical components.

Performance criteria

- 4.1 Components are prepared.
Range may include but is not limited to – use, storage, transit, surface protection, packing.
- 4.2 Documentation is completed.

Outcome 5

Carry out task completion activities.

Performance criteria

- 5.1 Completion activities specific to the task and work area are carried out in accordance with enterprise procedures.
Range may include but are not limited to – tool control, cleanliness, tidiness, return of publications, preparation for next activity, return of aircraft and systems to normal.

- 5.2 Leftover items, parts, and materials are disposed of in accordance with enterprise procedures.

Range may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous.

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	26 March 2007	31 December 2016
Review	5	24 October 2014	31 December 2021
Review	6	26 March 2020	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.