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| <b>Title</b> | <b>Repair or fabricate aeronautical components using boring machines</b> |                |           |
| <b>Level</b> | <b>4</b>   | <b>Credits</b> | <b>20</b> |

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| <b>Purpose</b> | 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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| <b>Classification</b> | Aeronautical Engineering > Aeronautical Machining |
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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 Boring machines may include – overarm, horizontal, bed, vertical, universal.

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### 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.
- 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.

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

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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       | 24 October 2014 | 31 December 2021         |
| Review                | 6       | 26 March 2020   | N/A                      |
| Rollover and Revision | 7       | 26 April 2024   | N/A                      |

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| <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 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.