

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

<b>Purpose</b>	People credited with this unit standard are able to: prepare to repair or fabricate aeronautical components using turning machines; prepare turning machines and plan sequence; turn aeronautical component parts; 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.

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### Outcomes and performance criteria

#### Outcome 1

Prepare to repair or fabricate aeronautical components using turning machines.

#### Performance criteria

- 1.1 Component identity is confirmed with documentation by comparing serial and part numbers.
- 1.2 Task is determined and documented.  
 Range repair or fabricate, modify.
- 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**

Prepare turning machines and plan sequence.

**Performance criteria**

2.1 Machines are prepared.

Range maintained, set up, made safe to work on, guards positioned, isolation procedures complied with, protective equipment.

2.2 Sequence of operations is planned and verified.

**Outcome 3**

Turn aeronautical component parts.

**Performance criteria**

3.1 Components are turned to shape.

3.2 Components are measured and checked for conformity with specifications.

3.3 Non-conforming components are reported, recorded, and rectified.

3.4 Inspections are obtained.

Range independent, duplicate, progressive.

**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 is not limited to – tool control, cleanliness, tidiness, return of publications, preparation for next activity, return of aircraft and systems to normal.

5.2 Hazardous waste materials are disposed of.

<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	20 April 2006	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

<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.