

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

Purpose	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 components; prepare aeronautical components; and complete finishing 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.

Outcomes and performance criteria

Outcome 1

Prepare to fabricate or repair 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 and checked for serviceability or status.
 Range may include but are 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

Complete finishing 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 Hazardous waste materials are disposed of.

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	20 April 2006	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.