

Title	Use optical tooling to inspect and calibrate aeronautical components, tooling, and machine tools		
Level	5	Credits	20

Purpose	People credited with this unit standard are able to: prepare to use optical tooling to inspect and calibrate aeronautical components, tooling, and machine tools; inspect and calibrate items; 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.
- 3 Optical tooling may include – test stands, theodolites, telescopes, prisms, mirrors.

Outcomes and performance criteria

Outcome 1

Prepare to use optical tooling to inspect and calibrate aeronautical components, tooling, and machine tools.

Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.
- 1.2 Resources are obtained and checked for serviceability or status.

Range may include but is not limited to – publications, tools, equipment, safety equipment.
- 1.3 Optical tooling is set up.

Outcome 2

Inspect and calibrate items.

Performance criteria

2.1 Tooling is inspected and calibrated.

Range may include but is not limited to – field, test stand, alignment standards, measurement systems, datum identification.

2.2 Items are inspected and calibrated.

Range tooling, structures, systems, components, machinery.

2.3 Inspections are obtained.

Outcome 3

Carry out task completion activities.

Performance criteria

3.1 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.

3.2 Documentation is completed.

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.