

Title	Select, use, and maintain aeronautical engineering tools and equipment		
Level	3	Credits	12

Purpose	People credited with this unit standard are able to: select aeronautical engineering tools and equipment; and use and maintain aeronautical engineering tools and equipment.
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Classification	Aeronautical Engineering > Aeronautical Engineering - Core
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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 Tools and equipment may include:
hand tools – spanners, screw drivers, pliers, hammers, files, socket sets, torque wrenches, drills, saws, clamps, chisels, drifts, reamers, taps and dies, snips and shears, wire strippers, hole punches, vices, crimping tools;
powered tools and equipment – isolating transformers, extension power leads, portable drills, portable grinders, drill presses, bench grinders, air driven tools, dimplers;
support equipment – lifting tackle, jacks, benders and folders, guillotines, grease guns, ladders, stands;
measuring and marking out equipment – micrometers, callipers, vernier gauges, dial test indicators, bore gauges, rulers, straight edges, combination set squares and protractors, clinometers, hole and telescopic gauges, limit and comparator gauges and mandrels, surface tables and plates, vee and scribing blocks, squares, level gauges, marking out compounds, scribes, steel tapes, inclinometer's, mass balances, spring balances, stop watches, fixed gauges.
- 4 All calibrated tooling and electrical tooling must be within current compliance in accordance with enterprise procedures.

Outcomes and performance criteria

Outcome 1

Select aeronautical engineering tools and equipment.

Range may include but is not limited to – pre-use inspection.

Performance criteria

- 1.1 Hand tools are selected for the task.
- 1.2 Powered tools and equipment are selected for the task.
- 1.3 Support equipment is selected and set up for the task.
- 1.4 Measuring and marking-out equipment is selected for the task.

Outcome 2

Use and maintain aeronautical engineering tools and equipment.

Performance criteria

- 2.1 Tools and equipment are used in a safe and efficient manner, to produce the required outcome without damaging components or tooling.
- 2.2 Tools and equipment are maintained.
Range clean, repair, replace, report defects.
- 2.3 Tools and equipment are stored safely and securely after use.

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	19 September 2013	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 the ServiceIQ qualifications@serviceiq.org.nz if you wish to suggest changes to the content of this unit standard.