

Title	Apply aeronautical engineering maintenance practices		
Level	3	Credits	10

Purpose	<p>This is a core unit standard for all persons seeking employment in any of the aeronautical engineering industries technical trades.</p> <p>People credited with this unit standard are able to: apply aeronautical engineering maintenance practices; perform mechanical aeronautical engineering tasks; perform aeronautical electrical engineering tasks; and perform aeronautical preventative maintenance tasks.</p>
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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 Definitions

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.

Foreign objects – anything that can find its way into an aircraft engine or flight control mechanisms that could possibly cause damage to aircraft, equipment or people.

Outcomes and performance criteria

Outcome 1

Apply aeronautical engineering maintenance practices.

Performance criteria

- 1.1 Imperial and metric measurements, weights and quantities are converted.
- 1.2 Aeronautical engineering drawings are interpreted.
- 1.3 Tool control procedures applicable to aircraft maintenance tasks are applied in accordance with aviation industry standards.

1.4 Inspections are requested.

1.5 Quality of work is maintained.

Range may include but is not limited to – quality standards accessed, applied.

Outcome 2

Perform mechanical aeronautical engineering tasks.

Performance criteria

2.1 Aeronautical plumbing is connected and disconnected.

Range may include but is not limited to – quick disconnect couplings, unions, flexible and rigid tubes, hoses and pipes.

2.2 Bearings are maintained.

Range may include but is not limited to – remove, clean, inspect, lubricate, protect, fit.

2.3 Threads are maintained.

Range may include but is not limited to – clean, inspect, identify, dress.

2.4 Attachment and locking hardware is selected and used.

Range may include but is not limited to – fasteners (nuts, bolts, washers, screws), locking devices (lock washers, split pins, lock wire, lock tabs).

Outcome 3

Perform aeronautical electrical engineering tasks.

Performance criteria

3.1 Aeronautical components or parts are bonded and/or earthed.

3.2 Aeronautical electrical connectors are connected and disconnected.

Outcome 4

Perform aeronautical preventative maintenance tasks.

Performance criteria

4.1 Foreign objects are identified and removed to prevent damage to personnel, aircraft, and equipment.

4.2 Isolation tags, blanks, covers, and locks are fitted and removed.

4.3 Corrosion is identified and prevented.

Planned review date	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	19 September 2013	31 December 2021
Review	6	26 March 2020	N/A
Rollover and Revision	7	26 April 2024	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 Ringa Hora Services Workforce Development Council
qualifications@ringahora.nz if you wish to suggest changes to the content of this unit standard.