

Title	Demonstrate knowledge of troubleshooting techniques to locate mechanical and electrical defects		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: describe troubleshooting techniques used to locate mechanical and electrical defects in aeronautical engineering; and report indications of mechanical and electrical defects in aeronautical engineering.
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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.

Outcomes and performance criteria

Outcome 1

Describe troubleshooting techniques used to locate mechanical and electrical defects in aeronautical engineering.

Performance criteria

- 1.1 Troubleshooting techniques to locate defects are described.

Range	troubleshooting techniques may include but are not limited to – visual inspections, half-split rule, troubleshooting charts, interpretation of component and/or system circuit diagrams.
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Outcome 2

Describe and report indications of mechanical and electrical defects in aeronautical engineering.

Performance criteria

2.1 Defects in mechanical systems are identified and reported.

Range may include but are not limited to – leaks, chafing, dents, gouges, binding, restrictions, obstructions.

2.2 Defects in electrical systems are identified and reported.

Range may include but are not limited to – short-circuits, open circuits, no lights, no indications, burning smells and/or smoke.

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Status information and last date for assessment for superseded versions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 September 2013	31 December 2021
Review	2	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.