

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

<b>Purpose</b>	People credited with this unit standard are able to: describe troubleshooting techniques used to locate mechanical and electrical defects in aeronautical engineering; and identify and report indications of mechanical and electrical defects in aeronautical engineering.
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<b>Classification</b>	Aeronautical Engineering > Aeronautical Engineering - Core
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<b>Available grade</b>	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.

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### 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.

#### Outcome 2

Identify 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.

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<b>Planned review date</b>	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**Status information and last date for assessment for superseded versions**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 September 2013	31 December 2021
Review	2	26 March 2020	N/A
Rollover and Revision	3	26 April 2024	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:qualifications@ringahora.nz) if you wish to suggest changes to the content of this unit standard.