

Title	Use fault finding and fault rectification techniques on electrical installations		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to use fault finding and fault rectification techniques on electrical installations.
----------------	---------------------------------------------------------------------------------------------------------------------------------------

Classification	Electrical Engineering > Electrical Installation and Maintenance
-----------------------	------------------------------------------------------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 This unit standard has been developed for learning and assessment on-job.
- 2 Unit standard or equivalent prior knowledge and skills recommended:
Unit 32624, Demonstrate knowledge of electrical installation testing, fault finding, and rectification of discovered faults.
- 3 Definitions
Safe and sound practice – as it relates to the installation of electrical equipment is defined in AS/NZS 3000.
Stakeholders – refers to clients, installation owners, management, public, other trades people on site, candidate's work team, and any other people affected by work on site and/or the outcome of that work.
- 4 References
AS/NZS 3000 (version as cited in the Electricity (Safety) Regulations), *Electrical Installations (known as the Australian/New Zealand Wiring Rules)*;
AS/NZS 4836:2011, *Safe working on or near low-voltage electrical installations and equipment*;
Electricity (Safety) Regulations 2010;
or any current subsequent amended or replacement versions.
- 5 This unit standard can be used together with other relevant unit standards, additional learning and workplace training to meet the requirements of the Electrical Workers Registration Board (EWRB) core competencies, available at <https://www.ewrb.govt.nz>.
- 6 This unit standard applies to installations and equipment rated above extra-low voltage unless specifically stated.

- 7 Range
- a Candidates may refer to current legislation and Standards during assessment.
 - b Demonstration of safe working practices and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.
 - c All activities and evidence presented for all outcomes and performance criteria in this unit standard must be in accordance with:
 - i legislation;
 - ii policies and procedures;
 - iii ethical codes;
 - iv Standards – may include but are not limited to those listed in Schedule 2 of the Electricity (Safety) Regulations 2010;
 - v applicable site, enterprise, and industry practice; and
 - vi where appropriate, manufacturers' instructions, specifications, and data sheets.

Outcomes and performance criteria

Outcome 1

Use fault finding and fault rectification techniques on electrical installations.

Range three different faults.

Performance criteria

- 1.1 Communicate with stakeholder(s) to establish and meet job requirements.
- 1.2 Use safe fault finding techniques to identify faults in electrical installations.
- 1.3 Repair faults and test for correct function.

Planned review date	31 December 2026
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 March 2022	N/A

Consent and Moderation Requirements (CMR) reference	0003
------------------------------------------------------------	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Waihangā Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihanga.nz if you wish to suggest changes to the content of this unit standard.