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| Title | Maintain electrical installations | | |
| Level | 4 | Credits | 5 |

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| Purpose | People credited with this unit standard are able to maintain electrical installations. |
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| Classification | Electrical Engineering > Electrical Installation and Maintenance |
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| Available grade | Achieved |
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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 32642, Demonstrate knowledge of de-commissioning, commissioning, and verification of electrical installations.
- 3 Definitions
Maintenance documentation may include but is not limited to – a written report on maintenance carried out, reporting on projected future maintenance needed or likely to be needed, reporting on the condition of equipment, maintenance logs/documentation for compliance purposes such as a building warrant of fitness.
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 Maintenance of electrical installations is intended to be more than the replacement of a single electrical fitting or other small repair. It is intended to be a more overall installation check, repair, maintain, clean, tighten etc involving a whole installation or significant portion of an installation.

General maintenance of electrical installations – can be carried out in accordance with any of the following – a maintenance schedule, design specifications, manufacturer’s instructions, industry standards, acceptable industry practice, stakeholder requirements or similar.

- 7 This unit standard applies to installations and equipment rated above extra-low voltage unless specifically stated.

8 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

Maintain electrical installations.

Range three installations.

Performance criteria

- 1.1 Communicate with stakeholders to establish and meet maintenance requirements.
- 1.2 Carry out maintenance of electrical installations appropriate to stakeholder requirements.
- 1.3 Complete maintenance documentation.

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| Planned review date | 31 December 2026 |
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Status information and last date for assessment for superseded versions

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

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| Consent and Moderation Requirements (CMR) reference | 0003 |
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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 Waihanga 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.