

Title	De-commission and commission electrical installations		
Level	4	Credits	6

Purpose	People credited with this unit standard are able to: <ul style="list-style-type: none"> – de-commission an electrical installation; and – commission an electrical installation.
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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

Commissioning – refers to the safety testing, livening and functional testing of circuits and equipment ready to hand over to the customer for use.

Commissioning plan – a plan of the steps for the safe livening and start-up of an installation or equipment covering points such as:

 - risk assessment and controls including prevention of injury or damage to equipment from machine start up including possible mechanical movement.
 - installation steps for circuits and equipment.
 - required testing prior to energization.
 - function and operational testing.
 - records and documentation.

De-commissioning – refers to the removal of fittings and equipment (rather than replacement) and the necessary steps to make the resulting exposed energy supply system safe.

De-commissioning plan – a plan of the steps for the safe removal of an installation or equipment covering points such as:

 - risk assessment and controls including the de-energization of all energy sources.
 - ensuring the safe and effective disconnection of disused energy sources.
 - removal steps for circuits and equipment.
 - ensuring the safety and functionality of any remaining installation.
 - records and documentation.

Electrical installation – refers to all or a significant part of an electrical installation or plant equipment. This might be to accommodate the removal/installation of all or part of a structure or plant. The intention is that the installation or plant involved is more complicated requiring more complex planning than a single circuit and fittings or an appliance.

Safe and sound practice – as it relates to the installation of electrical equipment is defined in AS/NZS 3000.

Stakeholders may include but are not limited to – client, installation owners, management, public, other tradespeople on site, candidate's work team, 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 3017:2007, *Electrical installations - Verification guidelines*;
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 For the purpose of assessment, candidates may carry out de-commissioning and commissioning across more than one installation.

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

De-commission an electrical installation.

Performance criteria

- 1.1 Communicate with stakeholders to establish and meet de-commissioning requirements.
- 1.2 Develop a de-commissioning plan for the safe removal of the installation.
- 1.3 De-commission an electrical installation following the plan.

Outcome 2

Commission an electrical installation.

Performance criteria

- 2.1 Communicate with stakeholders to establish and meet commissioning requirements.
- 2.2 Develop a commissioning plan for the safe livening and start-up of an electrical installation.
- 2.3 Commission an electrical installation following the plan.

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

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 Waihangara 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.