

<b>Title</b>	<b>De-commission, test and commission basic electrical appliances, fittings, and equipment</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: <ul style="list-style-type: none"> <li>– de-commission electrical fittings and basic electrical equipment; and</li> <li>– test and commission basic electrical circuits and electrical equipment.</li> </ul>
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<b>Classification</b>	Electrical Engineering > Core Electrical
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<b>Available grade</b>	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 32614, *Demonstrate knowledge of electrical faults, circuit protection, de-commissioning, and commissioning.*
- 3 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>.
- 4 Definitions
 

*Basic electrical circuit and equipment* – a circuit or electrical equipment that has a single type of function that can be de-commissioned simply by removing the electrical supply, and does not require more than foundation electrical knowledge to commission. Examples include a lighting or socket outlet circuit, a fixed wired appliance, fixed wired electrical plant, other non-complex electrical equipment.

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

*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.

*Electrical fittings* – electrical accessories and light fittings.

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

- 5 References  
AS/NZS 3000 (version as cited in the Electricity (Safety) Regulations), *Electrical Installations (known as the Australian/New Zealand Wiring Rules)*;  
AS/NZS 3760:2010, *In-service safety inspection and testing of electrical equipment*;  
AS/NZS 4836:2011, *Safe working on or near low-voltage electrical installations and equipment*;  
AS/NZS 5761:2011, *In-service safety inspection and testing - Second-hand equipment prior to sale*;  
AS/NZS 5762:2011, *In-service safety inspection and testing - Repaired electrical equipment*;  
Electricity (Safety) Regulations 2010;  
or any current subsequent amended or replacement versions.
- 6 This unit standard applies to installations and equipment rated above extra-low voltage unless specifically stated.
- 7 Range
- Candidates may refer to current legislation and Standards during assessment.
  - Demonstration of safe working practices and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.
  - All activities and evidence presented for all outcomes and performance criteria in this unit standard must be in accordance with:
    - legislation;
    - policies and procedures;
    - ethical codes;
    - Standards – may include but are not limited to those listed in Schedule 2 of the Electricity (Safety) Regulations 2010;
    - applicable site, enterprise, and industry practice; and
    - where appropriate, manufacturers' instructions, specifications, and data sheets.
- 8 Candidates are expected to locate and reference the relevant clauses in the Standards that relate to the electrical work being undertaken.

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## Outcomes and performance criteria

### Outcome 1

De-commission electrical fittings and basic electrical equipment.

Range two different fittings, two different pieces of equipment.

### Performance criteria

1.1 Safely de-commission fittings and equipment.

### Outcome 2

Test and commission basic electrical circuits and electrical equipment.

Range two different circuits, two different pieces of electrical equipment.

**Performance criteria**

2.1 Carry out testing before livening circuits or putting equipment into service and record the results.

Range testing as applicable to AS/NZS 3000, AS/NZS 3760, AS/NZS 5761, AS/NZS 5762.

2.2 Safely and correctly commission circuits and equipment, complete appropriate live safety and functional tests to be ready for use.

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

<b>Consent and Moderation Requirements (CMR) reference</b>	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 Waihangā Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihanga.nz](mailto:qualifications@waihanga.nz) if you wish to suggest changes to the content of this unit standard.