

<b>Title</b>	<b>Disconnect and reconnect fixed wired electrical appliances or equipment</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	<p>This unit standard is for people wishing to qualify as electricians, electrical service technicians, and related trades, and is concerned with the safe disconnection and reconnection of fixed wired appliances or equipment to the mains power.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"><li>– disconnect fixed wired appliances or equipment; and</li><li>– reconnect fixed wired appliances or 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 Achievement of this unit standard does not by itself imply that trainees may legally perform prescribed electrical work in their own right. Until themselves are registered and licensed under the Electricity Act 1992, trainees are assisting, and must work under the supervision of a Supervisor of Electrical Work when carrying out prescribed electrical work. If the prescribed electrical work in question is carried out for reward the Supervisor of Electrical Work must hold a valid practising licence.
- 3 **References**  
Electricity (Safety) Regulations 2010;  
Electricity Act 1992;  
Health and Safety at Work Act 2015, and associated regulations;  
New Zealand Electrical Codes of Practice available at  
<https://www.worksafe.govt.nz/laws-and-regulations/standards/electricity-standards-and-codes-of-practice/>;  
AS/NZS 3000:2018 *Electrical installations (known as the Australian/New Zealand Wiring Rules)* including Amendment 1;  
and all subsequent amendments and replacements.

#### 4 Definitions

The term *current regulations and standards* is used in this unit standard to refer to the requirements of the above references.

*Fixed wired* refers to the direct connection to power cabling, rather than by means of a plug and socket.

*Safe and sound practice* relates to the installation of electrical equipment is defined in AS/NZS 3000:2018.

#### 5 Range

a Demonstration of *safe working practices*, and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.

b Typical fixed wired appliances or equipment – heaters, non-free standing ranges, water heaters, fans, motors; evidence must include single-phase and three-phase appliances or equipment, for at least three different types.

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### Outcomes and performance criteria

#### Outcome 1

Disconnect fixed wired appliances or equipment.

##### Performance criteria

- 1.1 Appliance or equipment supply voltage, connections and settings are noted and, where appropriate, motor and/or phase rotation are documented.
- 1.2 Circuit is identified, isolated and tagged.
- 1.3 Appliance or equipment is tested to verify isolation of all live conductors.
- 1.4 Details of connections for other than simple single-phase equipment are recorded to facilitate later restoration.
- 1.5 Appliance or equipment is disconnected from the supply and exposed wiring made safe.

#### Outcome 2

Reconnect fixed wired appliances or equipment.

##### Performance criteria

- 2.1 Electrical supply to appliance or equipment is tested and tags are checked to confirm isolation.
- 2.2 Appliance or equipment is tested and inspected to confirm that all requirements of current regulations and standards have been met, and that the appliance or equipment is safe for connection to the electrical supply.

- 2.3 Appliance or equipment is reconnected to the electrical supply according to current regulations and standards.

Range reconnection includes – termination of conductors, checking and/or adjusting phase sequence, motor rotation.

- 2.4 Warning tags are removed and appliance or equipment is livened.

**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	29 April 1994	31 December 2013
Review	2	23 April 1996	31 December 2013
Review	3	28 June 1999	31 December 2013
Revision	4	3 April 2001	31 December 2013
Review	5	26 May 2005	31 December 2027
Rollover and Revision	6	15 March 2012	31 December 2027
Revision	7	15 January 2014	31 December 2027
Rollover and Revision	8	28 January 2021	31 December 2027
Review	9	25 May 2023	31 December 2027

<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>.