

<b>Title</b>	<b>Isolate electrical appliances from the supply</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>1</b>

<b>Purpose</b>	<p>This unit standard is for use in the training of electrical technicians and service persons. It covers the safe isolation of electrical appliances from the electricity supply.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> <li>- explain isolation procedure and consequences of not isolating correctly; and</li> <li>- demonstrate isolation of fixed wired electrical appliances.</li> </ul>
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<b>Classification</b>	Electrical Engineering > Electrical Service Technicians
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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 off-job.
- 2 Competency under this unit standard does not entitle the candidate to legally perform prescribed electrical work without adequate supervision until the candidate has been registered and licensed under the Electricity Act 1992.
- 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/>;  
 and all subsequent amendments and replacements.
- 4 Definitions  
*Electrical technicians and service persons* – for the purposes of this unit standard means, people who hold or who are working towards electrical registration as an Electrical Service Technician, Electrical Appliance Serviceperson (endorsed to disconnect and connect), or Electrical Appliance Serviceperson.  
*Industry practice* – those practices which competent practitioners within the industry recognise as current industry best practice.

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## Outcomes and performance criteria

### Outcome 1

Explain isolation procedure and consequences of not isolating correctly.

#### Performance criteria

- 1.1 Explanation outlines the steps to be followed for plug-in and fixed wired appliances, in accordance with industry practice.
- 1.2 Explanation includes reason for first switching the appliance off.
- 1.3 Explanation includes consequences of identifying incorrect fuse or circuit breaker.
- 1.4 Explanation includes consequences of removing a fuse while the appliance is still operating.

### Outcome 2

Demonstrate isolation of fixed wired electrical appliances.

#### Performance criteria

- 2.1 Appliance is identified as single, two, or three-phase in accordance with industry practice.
- 2.2 Appliance is switched off.
- 2.3 Fuse or circuit breaker is identified at the switchboard in accordance with industry practice.
- 2.4 Safety tag or padlock, where appropriate, is applied in accordance with industry practice.
- 2.5 Other means of ensuring that electrical isolation is maintained are described.  

Range	removal of fuse, removal of fuse carrier, disconnection and making safe of conductors.
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- 2.6 Isolation is confirmed by prove-test-prove method using a line tester, in accordance with industry practice.  

Range	tests – phase to neutral, phase to phase where appropriate, phase to earth.
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**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	25 November 2000	31 December 2013
Revision	2	3 April 2001	31 December 2013
Revision	3	19 May 2004	31 December 2013
Review	4	20 June 2006	31 December 2024
Rollover and Revision	5	20 September 2012	31 December 2024
Revision	6	15 January 2014	31 December 2024
Rollover and Revision	7	25 March 2021	31 December 2024
Review	8	2 March 2023	31 December 2024

<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>.