

<b>Title</b>	<b>Wire and connect control devices used in the electrical environment</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	<p>This unit standard covers wiring and connections of control devices used in the electrical environment and is intended for people wishing to qualify as an electrician.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> <li>– establish and report on the suitability of selected control devices; and</li> <li>– install, wire, connect, and adjust control devices.</li> </ul>
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<b>Classification</b>	Electrical Engineering > Electrical Installation and Maintenance
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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 Definition  
*Safe and sound practice* – as it relates to the installation of electrical equipment is defined in AS/NZS 3000:2007, *Electrical Installations (known as the Australian/New Zealand Wiring Rules)*.
- 3 Range
  - a Control devices may include but are not limited to – timers, real time clocks, access control devices, motion detection, light sensors, dimmer and lighting controls, thermostats, pressure switches.
  - b Evidence of five control devices is required.
  - c Candidates may refer to current legislation and Standards during assessment.
  - d Demonstration of safe working practices and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.
  - e All activities and evidence presented for all outcomes and performance criteria in this unit standard must be carried out under supervision and 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.

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## Outcomes and performance criteria

### Outcome 1

Establish and report on the suitability of selected control devices.

#### Performance criteria

- 1.1 Select control devices and ensure they meet the electrical and environmental requirements based on specifications and client requirements.
- 1.2 Interpret the manufacturers' installation instructions in conjunction with the supervisor.
- 1.3 Draw a single line diagram for the supervisor and/or customer showing how the device is to be installed before work commences.

### Outcome 2

Install, wire, connect, and adjust control devices.

#### Performance criteria

- 2.1 Install, wire, and connect control devices to fixtures and fittings.
- 2.2 Establish expected test results before connection.
- 2.3 Connect and carry out functional tests based on customer requirements and prepare test reports.

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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	21 July 2016	31 December 2025
Review	2	24 March 2022	31 December 2025

<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>.