

Title	Wire and connect control devices used in the electrical environment		
Level	4	Credits	4

Purpose	<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"> – establish and report on the suitability of selected control devices; and – install, wire, connect, and adjust control devices.
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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 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.

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.

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 2027
Review	2	24 March 2022	31 December 2027
Rollover and Revision	3	25 May 2023	31 December 2027

Consent and Moderation Requirements (CMR) reference

0003

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.