

Title	Follow a control drawing and install, wire, and commission a control panel		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to: <ul style="list-style-type: none"> – plan control panel installation; – follow a drawing to install and wire control panel; and – commission a control panel.
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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 This unit standard and unit standard 29479 together meet the assessment requirements of ERAC CEPC 40.
- 3 Definitions

CEPC – Critical Essential Performance Capabilities.

Control panel – may control motors, smart buildings, security systems, lighting.

ERAC – Electrical Regulatory Authorities Council.

EWRB – Electrical Workers Registration Board.

Industry practice – those practices that competent practitioners within the industry recognise as current industry best practice.

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)*.
- 4 Range
 - a Candidates may refer to current legislation and Standards during assessment.
 - b Demonstration of safe working practices and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.

- c All activities and evidence presented for all outcomes and performance criteria in this unit standard 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

Plan control panel installation.

Performance criteria

- 1.1 Use diagram to plan panel installation.
- 1.2 Follow drawing to identify required components to match job requirements.
- 1.3 Ensure the selected components meet electrical and environmental requirements.

Outcome 2

Follow drawing to install and wire control panel.

Performance criteria

- 2.1 Install control panel in accordance with drawing.
- 2.2 Install components in accordance with drawings and manufacturers' instructions.
- 2.3 Terminate cable looms, fit cover plates, and label control panel.
- 2.4 Leave work area clean and ready for testing and commissioning of the control panel.

Outcome 3

Commission a control panel.

Performance criteria

- 3.1 Test and certify installation in accordance with the drawing.

- 3.2 Carry out operational tests and adjust system in accordance with job specification and/or manufacturers' instructions.
- 3.3 Document the installation.

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>.