

<b>Title</b>	<b>Follow a control drawing and install, wire, and commission a control panel</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to: <ul style="list-style-type: none"> <li>– plan control panel installation;</li> <li>– follow a drawing to install and wire control panel; and</li> <li>– commission a control panel.</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 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.

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## 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.

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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

**Consent and Moderation Requirements (CMR) reference**

0003

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

This unit standard is expiring