

<b>Title</b>	<b>Select and install industrial electric switchboards</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	<p>This unit standard covers selection and installation of industrial electric switchboards. It is intended for people wishing to qualify as electricians.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> <li>– establish the suitability of selected industrial electric switchboards to meet job requirements; and</li> <li>– install industrial electric switchboards.</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 standards 5931, 5932, 15848, 15855, 29419, and 29480 together meet the assessment requirements of ERAC CEPC 23.  
This unit standard and unit standards 5931, 5932, 15848, 15855, 29419, 29440, 29471, and 29480 together meet the assessment requirements of ERAC CEPC 24.  
This unit standard and unit standards 5931, 5932, 15848, 15855, 29419, 29440, and 29474 together meet the assessment requirements of ERAC EPC 37.  
This unit standard and unit standards 5931, 2016, 29419, and 29440 together meet the assessment requirements of ERAC CEPC 38.
- 3 Definitions  
*CEPC* – Critical Essential Performance Capability.  
*ERAC* – Electrical Regulatory Authorities Council.  
*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 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

Establish the suitability of selected industrial electric switchboards to meet job requirements.

#### Performance criteria

- 1.1 Ensure the selected switchboards meet the electrical, switchgear, and environmental requirements based on drawings and client consultation.

### Outcome 2

Install industrial electric switchboards.

#### Performance criteria

- 2.1 Install switchboards in accordance with energy supplier and customer requirements.

Range includes but is not limited to – height above ground, distance from floor to main switch, window height for meter board, square, plumb, securely attached in permitted locations only.

- 2.2 Install components in accordance with drawings where available, and manufacturers' instructions.

Range components include but are not limited to – switchboard tray, gear plate, cable supports, switch gear, control gear, metering equipment.

- 2.3 Terminate cable looms, fit cover plates, and label switchboards.

- 2.4 Leave switchboards clean and ready for testing and commissioning.

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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 2027
Revision	2	16 March 2017	31 December 2027
Review	3	24 March 2022	31 December 2027
Rollover and Revision	4	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>.