

Title	Plan, install, and commission a power supply on a construction or demolition site		
Level	4	Credits	2

Purpose	<p>This unit standard covers the installation of mains power to construction or demolition sites to allow workers to operate their power tools and machinery. It is 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"> – plan a power supply on a construction or demolition site; – install a power supply on a construction or demolition site; and – commission a power supply on a construction or demolition site.
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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 Achievement of this unit standard does not by itself imply that trainees may legally perform prescribed electrical work in their own right. Until they are registered and licensed under the Electricity Act 1992, trainees are assisting, and must work under the supervision of a Supervisor of Electrical Work when carrying out prescribed electrical work. If the prescribed electrical work in question is carried out for reward the Supervisor of Electrical Work must hold a valid practising licence.
- 3 **References**
 Electricity Act 1992;
 Electricity (Safety) Regulations 2010;
 Health and Safety in Employment Act 1992;
 AS/NZS 3000:2007, *Electrical installations (known as the Australian/New Zealand Wiring Rules)*, including Amendment 1;
 AS/NZS 3012:2010 *Electrical Installations – Construction and demolition sites*, subject to variation that references to AS/NZS 3439.4 must be read as references to AS/NZS 3439;
 electricity supplier rules and local bylaws;
 and all subsequent amendments and replacements.

4 Definitions

The term *current regulations and standards* is used in this unit standard to refer to the requirements of the above references.

The term *safe and sound practice* relating to the installation of electrical equipment is defined in AS/NZS 3000:2007.

5 Range

Demonstration of *safe working practices* and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.

Outcomes and performance criteria

Outcome 1

Plan a power supply on a construction or demolition site.

Performance criteria

- 1.1 Requirements are determined by consultation with the customer, energy supplier, and other trades on the site.
- 1.2 Plan takes into account electrical load, position, number of points, connection date, and period of service.
- 1.3 Electricity network application is completed to the requirements of the energy supplier.

Outcome 2

Install a power supply on a construction or demolition site.

Range single-phase or three-phase.

Performance criteria

- 2.1 Supply cables, fittings, earthing, and distribution equipment are installed and connected in accordance with current regulations and standards.
- 2.2 Installation is completed to customer requirements.
- 2.3 The work site is left free of installation waste and excess materials to the customer's satisfaction and in accordance with industry practice.

Outcome 3

Commission a power supply on a construction or demolition site.

Performance criteria

- 3.1 Electrical tests are carried out in accordance with current regulations and standards.

- 3.2 Testing confirms that all requirements of current regulations and standards have been met, and that the power supply is safe to be connected to the energy supplier's distribution system.
- 3.3 A certificate of compliance is completed by a registered tradesperson in accordance with current regulations.
- 3.4 Connection to energy supplier is co-ordinated and connection achieved.
- 3.5 Customer and other trades personnel are shown how to reset protection devices and how to make the temporary supply safe when not in use.
- 3.6 Documentation is completed according to company requirements.

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	22 April 1994	31 December 2013
Review	2	23 April 1996	31 December 2013
Review	3	28 June 1999	31 December 2013
Review	4	26 May 2005	31 December 2021
Rollover and Revision	5	15 March 2012	31 December 2021
Revision	6	15 January 2014	31 December 2021
Review	7	21 July 2016	31 December 2027
Review	8	24 March 2022	31 December 2027
Rollover and Revision	9	25 May 2023	31 December 2027

Consent and Moderation Requirements (CMR) reference	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.