

Title	Apply knowledge of electrical tools, fittings, and plans in the workplace		
Level	4	Credits	7

Purpose	People credited with this unit standard are able to: <ul style="list-style-type: none"> – use and maintain hand tools, power tools, and PPE safely and correctly; – identify and record common electrical fittings or accessories in the workplace; and – use plans in the workplace.
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Classification	Electrical Engineering > Core Electrical
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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 Unit standard or equivalent prior knowledge and skills recommended:
Unit 32606, *Demonstrate knowledge of tools, fittings, and plans in the electrical industry.*
- 3 References
AS/NZS 3000 (version as cited in the Electricity (Safety) Regulations), *Electrical Installations (known as the Australian/New Zealand Wiring Rules)*;
AS/NZS 3760:2010, *In-service safety inspection and testing of electrical equipment*;
AS/NZS 4836:2011, *Safe working on or near low-voltage electrical installations and equipment*;
Electricity (Safety) Regulations 2010;
Health and Safety at Work Act 2015;
or any current subsequent amendments and replacements.
- 4 Definitions
Different situations – are workplace activities that require different PPE, safeguards, or combinations of PPE and safeguards for each activity.
PPE – personal protective clothing and equipment includes but are not limited to – overalls, safety footwear, gloves, gauntlets, waterproof gear, eye protectors, head protectors, hearing protectors, breathing apparatus.
Safe and sound practice – as it relates to the installation of electrical equipment is defined in AS/NZS 3000.

- 5 This unit standard can be used together with other relevant unit standards, additional learning and workplace training to meet the requirements of the Electrical Workers Registration Board (EWRB) core competencies, available at <https://www.ewrb.govt.nz>.
- 6 Measurements must include measurements in metres and millimetres, use of appropriate rounding, and justification for the choice of the units of measure used.
- 7 This unit standard applies to electrical fittings and/or accessories rated above extra-low voltage unless specifically stated.
- 8 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

Use and maintain hand tools, power tools, and PPE safely and correctly.

Performance criteria

1.1 Use and maintain common hand and power tools correctly and safely.

Range five hand tools, three power tools.

1.2 Select, check, use and maintain appropriate PPE and safeguards.

Range three different situations.

Outcome 2

Identify and record common electrical fittings or accessories in the workplace.

Range at least five electrical fittings or accessories.

Performance criteria

2.1 Identify electrical fittings or accessories in the workplace.

- 2.2 Record the ratings and environmental suitability of identified electrical fittings or accessories.
- 2.3 Record the application of identified electrical fitting or accessory.

Outcome 3

Use plans in the workplace.

Performance criteria

- 3.1 Read and use information from plans to complete fundamental workplace activities.

Range three different workplace activities.

- 3.2 Use measurements to position or confirm the position of fittings or equipment according to plans.

Range three fittings or pieces of equipment.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 March 2022	N/A

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>.

Comments on this unit standard

Please contact Waihangā Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihanga.nz if you wish to suggest changes to the content of this unit standard.