

<b>Title</b>	<b>Apply knowledge of working safely in the electrical industry</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	People credited with this unit standard are able to: <ul style="list-style-type: none"> <li>– apply health and safety measures in the workplace;</li> <li>– identify health and safety procedures and identify risks in the workplace; and</li> <li>– use a voltmeter to safely and correctly test for voltage and to test for isolation.</li> </ul>
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<b>Classification</b>	Electrical Engineering > Core Electrical
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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 Unit standard or equivalent prior knowledge and skills recommended:  
Unit 32605, *Demonstrate knowledge for working safely 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 4836:2011, *Safe working on or near low-voltage electrical installations and equipment*;  
Electricity Act 1992;  
Electricity (Safety) Regulations 2010;  
EWRB Supervision Guidelines, available at <https://www.ewrb.govt.nz>;  
Health and Safety at Work Act 2015;  
or any current subsequent amendments and replacements.
- 4 This unit standard and unit standards 6401, 6402, and 32605, together meet the Safety Training requirements for a Trainee Limited Certificate.

- 5 Definitions  
*AC* – alternating current.  
*DC* – direct current.  
*EWRB* – Electrical Workers Registration Board.  
*JSA* – Job Safety Analysis.  
*PPE* – personal protective equipment.  
*Safe and sound practice* – as it relates to the installation of electrical equipment is defined in AS/NZS 3000.  
*Safety briefings* – refers to health and safety inductions, health and safety briefings, toolbox meetings, or similar.  
*SWMS* – Safe Work Method Statements.
- 6 This unit standard can be used together with other relevant unit standards, additional learning and workplace training to meet the requirements of the EWRB core competencies, available at <https://www.ewrb.govt.nz>.
- 7 Range
- Candidates may refer to current legislation and Standards during assessment.
  - Demonstration of safe working practices and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.
  - All activities and evidence presented for all outcomes and performance criteria in this unit standard must be in accordance with:
    - legislation;
    - policies and procedures;
    - ethical codes;
    - Standards – may include but are not limited to those listed in Schedule 2 of the Electricity (Safety) Regulations 2010;
    - applicable site, enterprise, and industry practice; and
    - where appropriate, manufacturers' instructions, specifications, and data sheets.
- 8 A non-contact 'volt stick' type voltage indicator is not suitable for use in this assessment.
- 9 The AC circuits in this unit standard apply to installations and equipment rated above extra-low voltage.

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## Outcomes and performance criteria

### Outcome 1

Apply health and safety measures in the workplace.

### Performance criteria

- 1.1 Record and action health and safety measures required in the workplace.
- Range six health and safety measures taken from three safety briefings.

**Outcome 2**

Identify health and safety procedures and identify risks in the workplace.

**Performance criteria**

- 2.1 Find and record the location of workplace-specific health and safety procedure documents.
- Range includes – emergency procedure, incident or accident reporting procedure.
- 2.2 Use risk management forms to identify electrical risks for workplace activities.
- Range forms may include but are not limited to – SWMS, JSA or alternative system; evidence of three different workplace activities is required.
- 2.3 Record appropriate control measures for different identified risks in the workplace.
- Range risks from three different workplace activities.

**Outcome 3**

Use a voltmeter to safely and correctly test for voltage and to test for isolation.

**Performance criteria**

- 3.1 Identify live AC and DC supplies.
- Range three AC supplies, two DC supplies.
- 3.2 Isolate circuits and test for circuit isolation safely.
- Range three different types of circuits.
- 3.3 Re-liven circuits safely.
- Range three different types of circuits.

<b>Planned review date</b>	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

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

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### Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihanga.nz](mailto:qualifications@waihanga.nz) if you wish to suggest changes to the content of this unit standard.