

<b>Title</b>	<b>Inspect and certify electrical work</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	<p>This unit standard is intended for the training and assessment of electricians beyond trade level and covers the practical training requirements for electrical inspectors.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> <li>– apply advanced knowledge of the Electricity Act 1992, the Electricity (Safety) Regulations 2010, Electrical Standards, and Codes of Practice</li> <li>– use electrical test instruments for inspection purposes</li> <li>– inspect electrical installations</li> <li>– record inspection results.</li> </ul>
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<b>Classification</b>	Electrical Engineering > Electrical Standards and Statutes
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<b>Available grade</b>	Achieved
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<b>Corequisites</b>	Unit 25638, <i>Demonstrate knowledge of inspection and certification of electrical work</i> , or demonstrate equivalent knowledge and skills.
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## Guidance Information

- 1 This unit standard has been designed for training and assessment on-job and off-job (refer to *Teaching Guidelines for Electrical Inspector, Section 10.10 Electrical inspector practical tasks and skills assessment* for on-job requirements).
- 2 References  
All versions are as cited in the *Electricity (Safety) Regulations 2010*.
  - AS/NZS 3000 *Electrical installations (known as the Australian/New Zealand Wiring Rules)*
  - AS/NZS 3001 *Electrical Installations – Transportable structures and vehicles including their site supplies*
  - AS/NZS 3002 *Electrical Installations – Shows and carnivals*
  - AS/NZS 3003 *Electrical Installations – Patient areas*
  - AS/NZS 3004.1 *Electrical Installations – Marinas and recreational boats – Part 1: Marinas*
  - AS/NZS 3004.2 *Electrical Installations – Marinas and recreational boats – Part 2: Recreational boats installations*
  - AS/NZS 3012 *Electrical Installations – Construction and demolition sites*
  - AS/NZS 3019 *Electrical installations – Periodic verification*

- AS/NZS 60079.17 *Explosive atmospheres – Part 17: Electrical Installations inspection and maintenance*
- Electricity Act 1992
- Electricity (Safety) Regulations 2010
- Electrical Workers Registration Board (2021) *Teaching guidelines for electrical inspector: Programme outline for examination and practical skill assessments*, available from [ewrb.govt.nz](http://ewrb.govt.nz)
- New Zealand Electrical Codes of Practice available at [worksafe.govt.nz](http://worksafe.govt.nz) and all subsequent amendments and replacements.

### 3 Definitions

*Advanced knowledge* – for this unit standard means; employing specialised knowledge, with depth in more than one area of the subject matter, to analyse, reformat, and evaluate a wide range of information.

*Industry practice* – those practices that competent practitioners within the industry recognise as current industry best practice.

### 4 This unit standard is based on the practical training and written examination for Electrical Inspectors as specified in the EWRB Teaching guidelines.

### 5 As part of the requirements for registration as an Electrical Inspector, candidates must pass the Electrical Workers Registration Board's (EWRB) written examination and practical assessments for Electrical Inspector. For this reason the only valid assessment tools for Unit 25638, *Demonstrate knowledge of inspection and certification of electrical work* and Unit 25640, *Inspect and certify electrical work* are the EWRB examination and practical assessment.

Candidates who complete the EWRB written examination will meet the requirements of Unit 25638, *Demonstrate knowledge of inspection and certification of electrical work*. Candidates who complete the EWRB practical assessments will meet the requirements of Unit 25640, *Inspect and certify electrical work*.

### 6 Competency under this unit standard alone does not entitle candidates to perform electrical inspections until they have been registered as an Electrical Inspector under the Electricity Act 1992.

### 7 Range

Outcome 3 and Outcome 4 can only be assessed under the supervision of a registered Electrical Inspector.

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## Outcomes and performance criteria

### Outcome 1

Apply advanced knowledge of the Electricity Act 1992 (the Act), the Electricity (Safety) Regulations 2010 (the Regulations), Electrical Standards, and Codes of Practice.

**Performance criteria**

1.1 Provisions of the Act and Regulations are applied for given practical situations within the scope of work performed by registered electrical inspectors.

Range provisions of the Act and Regulations relating to – electrical safety, registration and licensing of electrical workers, restrictions on electrical work, discipline, audits, disputes, accident reporting, testing of prescribed electrical work, certification of prescribed electrical work, certification of installations disconnected from electrical supply for six months or more, certification of connectable installations (Electrical Warrants of Fitness), connection of prescribed electrical work, inspection of prescribed electrical work, periodic safety checks of electrical installations.

1.2 Codes of Practice and Standards are applied in terms of given practical situations within the scope of work performed by registered electrical workers.

**Outcome 2**

Use electrical test instruments for inspection purposes.

Range insulation resistance tester, earth fault loop impedance tester, phase rotation tester, resistance tester, voltage tester, residual current device tester.

**Performance criteria**

2.1 Instruments are selected to suit the type of measurement.

2.2 Instruments are set and calibrated, in accordance with manufacturers' specifications.

2.3 Measurements are made in accordance with manufacturers' specifications and industry practice.

2.4 Instruments are used in a manner that causes no danger to persons or damage to instruments or equipment.

**Outcome 3**

Inspect electrical installations.

Range a minimum of three electrical installations; Installations may include a range of prescribed electrical work requiring inspection as defined in the Electricity (Safety) Regulations 2010

This outcome can only be assessed under the supervision of a registered Electrical Inspector.

**Performance criteria**

- 3.1 Visual inspections are undertaken to confirm compliance with the Electricity (Safety) Regulations, codes and/or standards that apply to that installation, and/or identifies aspects of non-compliance.
- 3.2 Electrical testing is undertaken to confirm compliance with the Electricity (Safety) Regulations, codes and/or standards that apply to that installation, and/or identifies aspects of non-compliance.

**Outcome 4**

Record inspection results.

**Range** Requirements of electrical regulations relating to certification of prescribed electrical work requiring inspection as defined in the Electricity (Safety) Regulations 2010, inspection of prescribed electrical work, connection of electrical installations to electricity, safety checks for particular electrical installations and electrical appliances, periodic assessments, home-owners' electrical wiring work, offences, electrical safety and connectable installations.

This outcome can only be assessed under the supervision of a registered Electrical Inspector.

**Performance criteria**

- 4.1 Measurements are recorded in accordance with current legislative requirements on the appropriate prescribed forms.
- 4.2 Compliant installations are certified, and Certificates of Compliance, Certificates of Verification, and Warrants of Electrical Fitness are issued as applicable in accordance with legislative requirements.
- 4.3 Non-compliant work is documented and reported in accordance with legislative requirements and industry practice.

<b>Replacement information</b>	This unit standard and unit standard 25638 together replaced unit standard 19014.
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<b>Planned review date</b>	31 December 2028
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	19 June 2009	31 December 2025
Rollover and Revision	2	25 March 2021	31 December 2025
Review	3	28 March 2024	N/A

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

0003

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

**Comments on this unit standard**

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