



## Exemptions and credit transfer for Electrical Engineering Theory graduates

This exemption for First Aid unit standards applies.

Credit for	Exempt from
26551 Provide first aid for life threatening conditions (Level 2) (1 Credit)	6402 Provide basic life support (Level 1) (1 Credit)
26552 Demonstrate knowledge of common first aid conditions and how to respond to them (Level 2) (1 Credit)	6401 Provide first aid (Level 2) (1 Credit)

The next table applies to graduates of **non-unit standard-based** programmes leading to the following Level 3 qualification.

- New Zealand Certificate in Electrical Engineering Theory (Level 3) [Ref: 2387]

who are transitioning into one of these programmes:

- New Zealand Apprenticeship in Electrical Trade (Level 4) - General Electrical Strand (ID: 126205-1)
- New Zealand Apprenticeship in Electrical Trade (Level 4) with a strand in Electricity Supply (ID: 126153)

### Waihanga Ara Rau WDC Pre-approved Credit Transfer

Waihanga Ara Rau WDC supports the award of the unit standards identified. The evidence required to achieve the unit standards is the apprentice's NZQA Record of Learning listing the relevant qualification.

This recognises the transfer of learning from the completed Level 3 qualification into award of unit standards that will contribute to the level 4 programme.

This recognition cannot occur via exemption, as a qualification cannot exempt unit standards.

#### Process:

Providers must confirm the apprentice entering the programme has the NZC in Electrical Theory (Level 3) [Ref: 2387] on their NZQA Record of Learning. Upon confirmation, the listed unit standards should be awarded by the provider.

Graduate of:	Can be awarded
NZC in Electrical Theory (Level 3) [Ref: 2387]	750 Demonstrate knowledge of electrical test instruments and take measurements (Level 2) (2 Credits) 1204 Demonstrate knowledge of earthing (Level 3) (2 Credits) 5932 Demonstrate knowledge of protection of circuits from static electricity and magnetic interference (Level 2) (2 Credits), 15848 Demonstrate and apply knowledge of safeguards for use with portable electrical appliances (Level 2) (3 Credits)

	<p>15852 Isolate and test low-voltage electrical sub-circuits (Level 2) (2 Credits)</p> <p>15855 Demonstrate knowledge of circuit protection (Level 3) (3 Credits)</p> <p>15866 Demonstrate and apply knowledge of and the procedures for the examination of and testing of electrical installations (Level 4) (3 Credits)</p> <p>25070 Explain the properties of conductors, insulators, and semiconductors and their effect on electrical circuits (Level 2) (7 Credits)</p> <p>25071 Demonstrate knowledge of electromotive force (e.m.f.) production (Level 2) (3 Credits)</p> <p>25072 Apply electromagnetic theory to a range of problems (Level 2) (5 Credits)</p> <p>29465 Apply knowledge of electrical safety and safe working practices for electrical workers (Level 3) (6 Credits)</p> <p>29466 Demonstrate knowledge of legislation and Standards governing electrical workers (Level 3) (2 Credits)</p> <p>29467 Demonstrate knowledge of the electrical industry ethical work practices (Level 3) (2 Credits)</p> <p>29468 Demonstrate and apply knowledge of safe plant isolation, re-commissioning, and associated electrical testing procedures (Level 3) (5 Credits)</p> <p>29469 Select and install flexible cords and cables (Level 2) (4 Credits)</p> <p>29470 Demonstrate knowledge of electric motor and generator construction and operation (Level 3) (2 Credits)</p> <p>29471 Demonstrate knowledge of electric switchboards and lighting and power circuits (Level 3) (2 Credits)</p> <p>29472 Demonstrate knowledge of electric lighting systems (Level 3) (6 Credits)</p> <p>29473 Demonstrate knowledge of single-phase and three-phase transformers (Level 3) (3 Credits)</p> <p>29474 Demonstrate and apply knowledge of electrical fittings and components and their installation (Level 3) (6 Credits)</p> <p>29475 Demonstrate and apply knowledge of electronics (Level 3) (8 Credits)</p>
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	<p>29476 Demonstrate and apply knowledge of capacitance, inductance, power factor, and power factor correction (Level 3) (7 Credits)</p> <p>29477 Demonstrate knowledge of the New Zealand national electricity grid and associated electrical protection (Level 3) (2 Credits)</p> <p>29478 Demonstrate knowledge of electrical installations in special situations (Level 4) (6 Credits)</p> <p>29479 Draw and explain electrical diagrams (Level 3) (4 Credits)</p> <p>29480 Demonstrate knowledge of electric circuit design, control, and protection (Level 3) (6 Credits)</p> <p>29481 Apply knowledge of lighting installation, testing, repair, and disposal (Level 3) (5 Credits)</p> <p>29482 Demonstrate and apply knowledge of special power supplies (Level 3) (3 Credits)</p> <p>29483 Demonstrate and apply knowledge of single-phase and three-phase rotating machines (Level 3) (4 Credits)</p> <p>29484 Demonstrate knowledge of theory and practice for electrical workers (Level 3) (1 Credits)</p> <p>29557 Apply fundamental techniques for identifying and locating faults in electrical fittings or systems (Level 3) (4 Credits)</p>
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