



**WAIHANGA ARA RAU**

**Construction and  
Infrastructure**

Workforce Development Council

## Exemptions and credit transfer for apprentices who have partially completed qualification 2388 or 4204

These tables list the exemptions and pre-approved award of credit for apprentices transferring into a programme who have partially completed one of the following:

- A programme leading to the New Zealand Certificate in Electrical Engineering Theory and Practice (Trade) (Level 4) [Ref: 2388]

OR

- Skills Programme of Industry Training (ID: 126205-1), New Zealand Apprenticeship in Electrical Trade (Level 4) - General Electrical Strand, leading to the award of New Zealand Certificate in Electrical Trade (Level 4) with strands in General Electrical, and Electricity Supply [Ref: 4204-1]

OR

- Connexis Programme of Industry Training (ID: 126153), New Zealand Apprenticeship in Electrical Trade (Level 4) with a strand in Electricity Supply, leading to the award of New Zealand Certificate in Electrical Trade (Level 4) with strands in General Electrical, and Electricity Supply [Ref: 4204-1]

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

For most unit standards the recognition is via the means of **exemption** from unit standards in this programme.

### Exemptions

Process:

The exemptions should be built in the provider Student Management System.

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)
30657 Isolate low-voltage electrical subcircuits and perform basic checks and tests to confirm isolation (Level 2) (1 Credit) And 30658 Demonstrate knowledge of fundamental electrical safety in the workplace (Level 2) (2 Credits)	32605 Demonstrate knowledge for working safely in the electrical industry (Level 3) (6 Credits), And 32607 Apply knowledge of working safely in the electrical industry (Level 4) (8 Credits)

<p>30657 Isolate low-voltage electrical subcircuits and perform basic checks and tests to confirm isolation (Level 2) (1 Credit)</p> <p>And</p> <p>29465 Apply knowledge of electrical safety and safe working practices for electrical workers (Level 3) (6 Credits)</p>	<p>32605 Demonstrate knowledge for working safely in the electrical industry (Level 3) (6 Credits)</p>
<p>29465 Apply knowledge of electrical safety and safe working practices for electrical workers (Level 3) (6 Credits)</p> <p>And</p> <p>29429 Demonstrate and apply knowledge of safe practices in an electrical workplace (Level 4) (2 Credits)</p> <p>And</p> <p>15852 Isolate and test low-voltage electrical sub-circuits (Level 2) (2 Credits)</p>	<p>32607 Apply knowledge of working safely in the electrical industry (Level 4) (8 Credits)</p>
<p>16407 Use and maintain hand and power tools for electrical work (Level 3) (3 Credits)</p> <p>And</p> <p>29474 Demonstrate and apply knowledge of electrical fittings and components and their installation (Level 3) (6 Credits)</p> <p>And</p> <p>29479 Draw and explain electrical diagrams (Level 3) (4 Credits)</p>	<p>32606 Demonstrate knowledge of tools, fittings, and plans in the electrical industry (Level 3) (5 Credits)</p> <p>And</p> <p>32608 Apply knowledge of tools, fittings, and plans in the electrical industry (Level 4) (7 Credits)</p>
<p>25070 Explain the properties of conductors, insulators, and semiconductors and their effect on electrical circuits (Level 2) (7 Credits)</p>	<p>32609 Demonstrate knowledge of mathematical principles, conductors and insulators (Level 3) (7 Credits)</p>
<p>25070 Explain the properties of conductors, insulators, and semiconductors and their effect on electrical circuits (Level 2) (7 Credits)</p> <p>And</p> <p>25071 Demonstrate knowledge of electromotive force (e.m.f.) production (Level 2) (3 Credits)</p>	<p>32610 Demonstrate knowledge of voltage, power and energy, and DC circuits (Level 3) (6 Credits)</p>
<p>25071 Demonstrate knowledge of electromotive force (e.m.f.) production (Level 2) (3 Credits)</p> <p>And</p> <p>25072 Apply electromagnetic theory to a range of problems (Level 2) (5 Credits)</p>	<p>32611 Demonstrate knowledge of magnetism and AC generation (Level 3) (6 Credits)</p>

<p>29466 Demonstrate knowledge of legislation and Standards governing electrical workers (Level 3) (2 Credits)</p>	<p>32612 Demonstrate knowledge of legislation, industry governance bodies and AS/NZS 3000 for the electrical industry (Level 3) (4 Credits)</p>
<p>29469 Select and install flexible cords and cables (Level 2) (4 Credits)</p> <p>And</p> <p>29419 Prepare for, install, test, and commission new electrical installations (Level 4) (10 Credits)</p>	<p>32613 Demonstrate knowledge of cords, cables, and cable installation (Level 3) (4 Credits)</p>
<p>29469 Select and install flexible cords and cables (Level 2) (4 Credits)</p> <p>And</p> <p>29422 Install, wire, test and fault-find, and repair power outlets and electric lighting systems in existing installations (Level 4) (7 Credits)</p>	<p>32613 Demonstrate knowledge of cords, cables, and cable installation (Level 3) (4 Credits)</p>
<p>750 Demonstrate knowledge of electrical test instruments and take measurements (Level 2) (2 Credits)</p> <p>And</p> <p>29466 Demonstrate knowledge of legislation and Standards governing electrical workers (Level 3) (2 Credits)</p> <p>And</p> <p>15855 Demonstrate knowledge of circuit protection (Level 3) (3 Credits)</p> <p>And</p> <p>29468 Demonstrate and apply knowledge of safe plant isolation, re-commissioning, and associated electrical testing procedures (Level 3) (5 Credits)</p>	<p>32614 Demonstrate knowledge of electrical faults, circuit protection, commissioning, and de-commissioning (Level 3) (6 Credits)</p>
<p>15844 Select and install flexible cords (Level 3) (2 Credits)</p> <p>And</p> <p>29419 Prepare for, install, test, and commission new electrical installations (Level 4) (10 Credits)</p>	<p>32616 Apply knowledge of common cords, cables, and electrical fittings (Level 4) (6 Credits)</p>
<p>15844 Select and install flexible cords (Level 3) (2 Credits)</p> <p>And</p> <p>29422 Install, wire, test and fault-find, and repair power outlets and electric lighting</p>	<p>32616 Apply knowledge of common cords, cables, and electrical fittings (Level 4) (6 Credits)</p>

systems in existing installations (Level 4) (7 Credits)	
29469 Select and install flexible cords and cables (Level 2) (4 Credits) And 29419 Prepare for, install, test, and commission new electrical installations (Level 4) (10 Credits)	32616 Apply knowledge of common cords, cables, and electrical fittings (Level 4) (6 Credits)
29469 Select and install flexible cords and cables (Level 2) (4 Credits) And 29422 Install, wire, test and fault-find, and repair power outlets and electric lighting systems in existing installations (Level 4) (7 Credits)	32616 Apply knowledge of common cords, cables, and electrical fittings (Level 4) (6 Credits)
750 Demonstrate knowledge of electrical test instruments and take measurements (Level 2) (2 Credits) And 29421 Inspect, test, fault-find, and repair fixed-wired electrical appliances and portable appliances (Level 3) (3 Credits)	32617 Select and use instruments for testing, fault finding, and repairing basic appliances (Level 4) (4 Credits)
15866 Demonstrate and apply knowledge of and the procedures for the examination of and testing of electrical installations (Level 4) (3 Credits) And 29421 Inspect, test, fault-find, and repair fixed-wired electrical appliances and portable appliances (Level 3) (3 Credits)	32617 Select and use instruments for testing, fault finding, and repairing basic appliances (Level 4) (4 Credits)
15870 Inspect and test an electrical installation for compliance with AS/NZS 3000 (Level 4) (5 Credits) And 29421 Inspect, test, fault-find, and repair fixed-wired electrical appliances and portable appliances (Level 3) (3 Credits)	32617 Select and use instruments for testing, fault finding, and repairing basic appliances (Level 4) (4 Credits)
29468 Demonstrate and apply knowledge of safe plant isolation, recommissioning, and associated electrical testing procedures (Level 3) (5 Credits) And	32618 De-commission, test, and commission, basic electrical appliances, fittings, and equipment (Level 4) (4 Credits)

15870 Inspect and test an electrical installation for compliance with AS/NZS 3000 (Level 4) (5 Credits)	
29468 Demonstrate and apply knowledge of safe plant isolation, re-commissioning, and associated electrical testing procedures (Level 3) (5 Credits) And 29427 Install, test, and commission electrical appliances (Level 4) (2 Credits)	32618 De-commission, test, and commission, basic electrical appliances, fittings, and equipment (Level 4) (4 Credits)
29479 Draw and explain electrical diagrams (Level 3) (4 Credits) And 29480 Demonstrate knowledge of electric circuit design, control, and protection (Level 3) (6 Credits) And 29472 Demonstrate knowledge of electric lighting systems (Level 3) (6 Credits)	32620 Demonstrate knowledge of electrical plans, switching circuits, and lighting systems (Level 3) (5 Credits)
2020 Plan and install cable support systems (Level 3) (3 Credits) And 29469 Select and install flexible cords and cables (Level 2) (4 Credits)	32621 Demonstrate knowledge of wiring support systems and cable installation (Level 3) (5 Credits)
2020 Plan and install cable support systems (Level 3) (3 Credits) And 29419 Prepare for, install, test, and commission new electrical installations (Level 4) (10 Credits)	32621 Demonstrate knowledge of wiring support systems and cable installation (Level 3) (5 Credits)
2020 Plan and install cable support systems (Level 3) (3 Credits) And 29422 Install, wire, test and fault-find, and repair power outlets and electric lighting systems in existing installations (Level 4) (7 Credits)	32621 Demonstrate knowledge of wiring support systems and cable installation (Level 3) (5 Credits)
1204 Demonstrate knowledge of earthing (Level 3) (2 Credits) And	32622 Demonstrate knowledge of the national supply grid, MEN system, and earthing (Level 3) (6 Credits)

29477 Demonstrate knowledge of the New Zealand national electricity grid and associated electrical protection (Level 3) (2 Credits)	
15855 Demonstrate knowledge of circuit protection (Level 3) (3 Credits) And 29471 Demonstrate knowledge of electric switchboards and lighting and power circuits (Level 3) (2 Credits)	32623 Demonstrate knowledge of circuit protection and distribution board wiring (Level 4) (5 Credits)
15866 Demonstrate and apply knowledge of and the procedures for the examination of and testing of electrical installations (Level 4) (3 Credits) And 29557 Apply fundamental techniques for identifying and locating faults in electrical fittings or systems (Level 3) (4 Credits)	32624 Demonstrate knowledge of electrical installation testing, fault finding, and rectification of discovered faults (Level 4) (6 Credits)
29478 Demonstrate knowledge of electrical installations in special situations (Level 4) (6 Credits) And 29473 Demonstrate knowledge of single-phase and three-phase transformers (Level 3) (3 Credits)	32625 Demonstrate knowledge of damp situations, SELV and PELV systems, and single-phase transformers (Level 3) (5 Credits)
29473 Demonstrate knowledge of single-phase and three-phase transformers (Level 3) (3 Credits) And 29475 Demonstrate and apply knowledge of electronics (Level 3) (8 Credits)	32626 Demonstrate knowledge of capacitors, inductors, and electronics in the electrical trade (Level 3) (5 Credits)
29465 Apply knowledge of electrical safety and safe working practices for electrical workers (Level 3) (6 Credits) And 29479 Draw and explain electrical diagrams (Level 3) (4 Credits)	32630 Establish new worksites and interpret plans (Level 4) (4 Credits)
29422 Install, wire, test and fault-find, and repair power outlets and electric lighting systems in existing installations (Level 4) (7 Credits) And 29434 Install and programme a PLC (Level 4) (2 Credits)	32632 Design switching circuits and a PLC programme (Level 4) (4 Credits)

<p>29422 Install, wire, test and fault-find, and repair power outlets and electric lighting systems in existing installations (Level 4) (7 Credits)</p> <p>And</p> <p>5926 Demonstrate knowledge of programmable logic controllers (PLCs) (Level 4) (3 Credits)</p>	<p>32632 Design switching circuits and a PLC programme (Level 4) (4 Credits)</p>
<p>29422 Install, wire, test and fault-find, and repair power outlets and electric lighting systems in existing installations (Level 4) (7 Credits)</p> <p>And</p> <p>2016 Install earthing systems for multiple earthed neutral installations (Level 3) (3 Credits)</p> <p>And</p> <p>15869 Install electrical equipment in damp situations (Level 4) (3 Credits)</p>	<p>32633 Install electrical equipment in damp situations and install earthing and lighting (Level 4) (9 Credits)</p>
<p>5931 Select and install domestic or commercial electric switchboards (Level 4) (3 Credits)</p> <p>And</p> <p>15855 Demonstrate knowledge of circuit protection (Level 3) (3 Credits)</p>	<p>32634 Plan circuit protection, and install and test distribution boards (Level 4) (10 Credits)</p>
<p>15870 Inspect and test an electrical installation for compliance with AS/NZS 3000 (Level 4) (5 Credits)</p> <p>And</p> <p>29422 Install, wire, test and fault-find, and repair power outlets and electric lighting systems in existing installations (Level 4) (7 Credits)</p>	<p>32635 Use fault-finding and fault rectification techniques on electrical installations (Level 4) (4 Credits)</p>
<p>15870 Inspect and test an electrical installation for compliance with AS/NZS 3000 (Level 4) (5 Credits)</p> <p>And</p> <p>29557 Apply fundamental techniques for identifying and locating faults in electrical fittings or systems (Level 3) (4 Credits)</p>	<p>32635 Use fault-finding and fault rectification techniques on electrical installations (Level 4) (4 Credits)</p>
<p>1204 Demonstrate knowledge of earthing (Level 3) (2 Credits)</p> <p>And</p>	<p>32638 Demonstrate knowledge of earthing systems and switchboards (Level 4) (6 Credits)</p>

<p>29440 Demonstrate knowledge of electric switchboards (Level 4) (3 Credits)</p> <p>And</p> <p>15855 Demonstrate knowledge of circuit protection (Level 3) (3 Credits)</p>	
<p>1204 Demonstrate knowledge of earthing (Level 3) (2 Credits)</p> <p>And</p> <p>5931 Select and install domestic or commercial electric switchboards (Level 4) (3 Credits)</p> <p>And</p> <p>15855 Demonstrate knowledge of circuit protection (Level 3) (3 Credits)</p>	<p>32638 Demonstrate knowledge of earthing systems and switchboards (Level 4) (6 Credits)</p>
<p>29477 Demonstrate knowledge of the New Zealand national electricity grid and associated electrical protection (Level 3) (2 Credits)</p> <p>And</p> <p>29440 Demonstrate knowledge of electric switchboards (Level 4) (3 Credits)</p> <p>And</p> <p>15855 Demonstrate knowledge of circuit protection (Level 3) (3 Credits)</p>	<p>32638 Demonstrate knowledge of earthing systems and switchboards (Level 4) (6 Credits)</p>
<p>29477 Demonstrate knowledge of the New Zealand national electricity grid and associated electrical protection (Level 3) (2 Credits)</p> <p>And</p> <p>5931 Select and install domestic or commercial electric switchboards (Level 4) (3 Credits)</p> <p>And</p> <p>15855 Demonstrate knowledge of circuit protection (Level 3) (3 Credits)</p>	<p>32638 Demonstrate knowledge of earthing systems and switchboards (Level 4) (6 Credits)</p>
<p>29476 Demonstrate and apply knowledge of capacitance, inductance, power factor, and power factor correction (Level 3) (7 Credits)</p> <p>And</p> <p>29473 Demonstrate knowledge of single-phase and three-phase transformers (Level 3) (3 Credits)</p>	<p>32640 Demonstrate knowledge of power factor, three-phase AC power, and transformer safety and performance (Level 4) (6 Credits)</p>
<p>29476 Demonstrate and apply knowledge of capacitance, inductance, power factor, and power factor correction (Level 3) (7 Credits)</p> <p>And</p>	<p>32640 Demonstrate knowledge of power factor, three-phase AC power, and transformer safety and performance (Level 4) (6 Credits)</p>



29445 Demonstrate and apply knowledge of single-phase and three-phase transformers (Level 4) (4 Credits)	
29420 Fault-find, test, and commission electric motors (Level 4) (4 Credits) And 29444 Demonstrate and apply knowledge of a.c. electric motor control and installation (Level 4) (5 Credits)	32641 Demonstrate knowledge of electric motors and motor faults (Level 4) (3 Credits)
29482 Demonstrate and apply knowledge of special power supplies (Level 3) (3 Credits) And 29442 Demonstrate and apply knowledge of renewable energy electricity generation systems (Level 4) (4 Credits)	32643 Demonstrate knowledge of alternative energy systems (Level 4) (3 Credits)
29478 Demonstrate knowledge of electrical installations in special situations (Level 4) (6 Credits)	32644 Demonstrate knowledge of hazardous areas, construction and demolition sites, and special installations (Level 4) (5 Credits)
29422 Install, wire, test and fault-find, and repair power outlets and electric lighting systems in existing installations (Level 4) (7 Credits)	32646 Plan circuit protection, and install and test distribution boards (Level 4) (10 Credits)
5931 Select and install domestic or commercial electric switchboards (Level 4) (3 Credits)	32648 Install a main switchboard (Level 4) (5 Credits)
29430 Select and install industrial electric switchboards (Level 4) (3 Credits)	32648 Install a main switchboard (Level 4) (5 Credits)
29419 Prepare for, install, test, and commission new electrical installations (Level 4) (10 Credits)	32650 Install a complete electrical installation (Level 4) (10 Credits) Or 32651 Carry out verification of an electrical installation (Level 4) (5 Credits)
29423 Carry out planned maintenance of electrical equipment (Level 4) (3 Credits)	32653 Maintain electrical installations (Level 4) (5 Credits)
29439 Schedule and manage preventative maintenance for domestic or commercial electrical equipment (Level 4) (5 Credits)	32653 Maintain electrical installations (Level 4) (5 Credits)

## Waihanga Ara Rau WDC Pre-approved Credit Transfer

This process allows prior award of a unit standard to be a valid assessment tool to achieve additional unit standards identified in this programme. This is quality assured by Waihanga Ara Rau WDC.

### Process:

Providers must confirm the Apprentice entering the programme has the unit standard(s) listed in the left-hand column on their NZQA Record of Learning and does not have the ones on the right. Upon confirmation, the listed unit standards in the right-hand column of the same row should be awarded by the provider.

<b>Credit for</b>	<b>Can be awarded</b>
21766 Demonstrate knowledge of theory for registration of electricians (Level 4) (3 Credits)	29484 Demonstrate intermediate knowledge for working in electrical trades (Level 3) (1 Credit)  And  32619 Demonstrate fundamental knowledge for working in electrical trades (Level 3) (1 Credit)
29484 Demonstrate intermediate knowledge for working in electrical trades (Level 3) (1 Credit)	32619 Demonstrate fundamental knowledge for working in electrical trades (Level 3) (1 Credit)
1702 Demonstrate knowledge of, and apply electrical legislation, codes of practice, and standards (Level 4) (8 Credits)  And  29469 Select and install flexible cords and cables (Level 2) (4 Credits)	32639 Demonstrate knowledge of cable selection, underground cable systems, and specialised cables (Level 4) (4 Credits)