

## National Certificate in Electricity Supply (Level 2) with optional strands in Electrical, Electrical Fitter, and Line Mechanic

**Level** 2

**Credits** 50

This qualification is **expiring**. The last date to meet the requirements is 31 December 2017.

Version 5 of this qualification has been republished to extend the last date of enrolment from 31 December 2013 to 31 December 2016, also to extend the last date for assessment from 31 December 2015 to 31 December 2017.

### Transition Arrangements

This qualification has been replaced by the New Zealand Certificate in Electricity Supply (Introductory) (Level 2) [Ref: 2136].

The last date for entry into programmes leading to the replaced qualification is 31 December 2016.

Candidates with earlier versions of the Level 2 qualification who subsequently enrol in the higher level electricity supply educational pathway qualifications may need to complete the mandatory assessment standards in the New Zealand Certificate in Electricity Supply (Introductory) (Level 2) [Ref: 2136] that they have not yet achieved.

For detailed information see [Review Summaries](#) on the NZQA website.

### NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	June 2007	Withdrawn
Revision	2	October 2007	December 2011
Revision	3	January 2009	December 2012
Revision	4	August 2009	December 2015
Republished	4	September 2013	December 2015
Review	5	December 2013	December 2015
Republished	5	December 2015	December 2017

It is the intention of Infrastructure ITO that no existing trainee should be disadvantaged by these transition arrangements. Any person who considers they have been disadvantaged may appeal to Infrastructure ITO using the contact details below.

## Standard Setting Body

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EXPIRING

## National Certificate in Electricity Supply (Level 2) with optional strands in Electrical, Electrical Fitter, and Line Mechanic

**Level** 2

**Credits** 50

### Purpose

This National Certificate is an introductory qualification for people working in the electricity supply industry. It combines a broad, common foundation of electricity supply skills, with additional specialist skills and knowledge in the form of optional strands to suit the nature of particular trades or enterprises.

The compulsory section of the qualification includes standards relating to the protection of personal safety and health; general knowledge of the electricity supply industry; communication skills and basic work-based skills. The optional strands contain standards chosen to match the range of work available in an apprentice's enterprise. This qualification with the Electrical Optional Strand incorporates fifteen standards out of a total of sixty-one standards that meet the core competencies required by the Electrical Workers Registration Board (EWRB) for electrical registration under the Electricity Act 1992.

This qualification is intended to be a prerequisite for those people wishing to progress to National Certificates at level 3 for all sectors of the electricity supply industry. It is envisaged that additional strands will be added to this qualification in the future, providing comprehensive coverage of all the career pathways available in the electricity supply industry.

People who have completed the qualification with the optional Electrical Strand can continue on to the National Certificate in Electricity Supply (Electrical) (Level 3) with strands in Electricity Supply Electrician, Electrical Fitter, and Electrical Technician [Ref: 1294]. People who have completed the qualification with the optional Electrical and Electrical Fitter strands can continue on to the Electrical Fitter Strand of the National Certificate in Electricity Supply (Electrical) (Level 3) with strands in Electricity Supply Electrician, Electrical Fitter, and Electrical Technician [Ref: 1294]. People who have completed the qualification with the optional Line Mechanic Strand can continue on to the National Certificate in Electricity Supply (Line Mechanic Distribution) (Level 3) [Ref: 1369]. People who complete the qualification without an optional strand can continue on to any level 3 Electricity Supply qualification not specified above.

### Replacement Information

This qualification replaced the National Certificate in Electricity Supply (Level 2) [Ref: 0868].

This qualification was replaced by the New Zealand Certificate in Electricity Supply (Introductory) (Level 2) [Ref: 2136]

## Special Notes

Recognition of prior learning will be carried out by accredited providers or Electricity Supply Industry Training Organisation (ESITO) registered workplace assessors.

## Credit Range

	Compulsory	Electrical Optional Strand	Electrical Fitter Optional Strand	Line Mechanic Optional Strand
Level 1 credits	3	-	2	-
Level 2 credits	36	35	22	2
Level 3 credits	11	-	-	8
Totals	50	35	24	10
Qualification total with strand		85	74	60

## Requirements for Award of Qualification

### Award of NZQF Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided on the New Zealand Qualifications Authority (NZQA) website: <http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

## Summary of Requirements

- Compulsory standards

The following strands are optional

- Electrical Optional Strand
- Electrical Fitter Optional Strand
- Line Mechanic Optional Strand

## Detailed Requirements

### Compulsory

The following standards are required

## Core Generic &gt; Core Generic &gt; Work and Study Skills

ID	Title	Level	Credit
1978	Identify basic employment rights and responsibilities, and sources of information and assistance	1	2

## Engineering and Technology &gt; Electrical Engineering &gt; Core Electrical

ID	Title	Level	Credit
15848	Demonstrate knowledge of safeguards for use with portable electrical appliances	2	2
15851	Demonstrate knowledge of electrical safety and safe working practices for electrical workers	2	3

## Engineering and Technology &gt; Electricity Supply &gt; Electricity Supply - Core Skills

ID	Title	Level	Credit
10507	Use personal protection equipment within an electricity network environment	2	4
10508	Identify electricity systems in preparation for work	2	6
12300	Demonstrate knowledge of electricity industry safety statutes and codes	2	6
17026	Demonstrate knowledge of safe entry into restricted areas in an electricity supply environment	2	6
18038	Demonstrate knowledge of and apply health and safety in the electricity supply environment	3	5
18274	Demonstrate knowledge of electricity supply networks	3	6
18275	Demonstrate knowledge of the New Zealand electricity supply industry	2	2

## Health &gt; Health Studies &gt; Core Health

ID	Title	Level	Credit
6401	Provide first aid	2	1
6402	Provide resuscitation level 2	1	1

## Humanities &gt; Communication Skills &gt; Interpersonal Communications

ID	Title	Level	Credit
1277	Communicate information in a specified workplace	2	3
9677	Participate in a group/team which has an objective(s)	2	3

**Electrical Optional Strand**

The following standards are required

## Engineering and Technology &gt; Electrical Engineering &gt; Core Electrical

ID	Title	Level	Credit
750	Demonstrate knowledge of electrical test instruments and take measurements	2	2
15844	Select and install flexible cords	2	3
15845	Draw and explain simple electrical diagrams	2	4
15846	Demonstrate knowledge of capacitors and semiconductor diodes	2	3
15847	Demonstrate knowledge of mathematics and mechanics for electrical trades	2	4
15849	Perform manual soldering and de-soldering procedures for electrotechnology work	2	2
15852	Isolate and test low-voltage electrical subcircuits	2	2
25070	Explain the properties of conductors, insulators, and semiconductors and their effect on electrical circuits	2	7
25071	Demonstrate knowledge of electromotive force (e.m.f.) production	2	3
25072	Demonstrate knowledge of electromagnetism theory	2	5

**Electrical Fitter Optional Strand**

The following standards are required

## Engineering and Technology &gt; Mechanical Engineering &gt; Engineering Core Skills

ID	Title	Level	Credit
2395	Select, use and care for, engineering hand tools	2	4
2396	Select, use and maintain portable hand held engineering power tools	2	4
21912	Apply safe working practices on an engineering worksite	2	2

## Engineering and Technology &gt; Mechanical Engineering &gt; Engineering Drawing and Design

ID	Title	Level	Credit
2430	Draw and interpret engineering sketches under supervision	2	4

## Engineering and Technology &gt; Mechanical Engineering &gt; Engineering Machining and Toolmaking

ID	Title	Level	Credit
11661	Produce components by performing basic engineering drilling operations	2	8

Engineering and Technology > Mechanical Engineering > Engineering - Measurement

ID	Title	Level	Credit
4433	Select, use, and care for simple measuring devices used in engineering	1	2

**Line Mechanic Optional Strand**

The following standards are required

Engineering and Technology > Electricity Supply > Electricity Supply - Core Skills

ID	Title	Level	Credit
10509	Climb and work on electricity network structures	3	6
17025	Carry out a rescue from an electrical structure	3	2
18276	Operate light lifting and rigging equipment in the electricity supply environment	2	2

**Transition Arrangements**

Version 4 was republished in September 2013 to indicate that this qualification has been reviewed and replaced.

Version 4 was issued following a revision to improve completion rates for the qualification with the Line Mechanic Optional Strand by aligning it with the competencies required for registration as a line mechanic.

Changes to structure and content

- standard 20877 was removed from the Line Mechanic Optional Strand.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
2824	21912
15843	25070, 25071, 25072

**Previous versions of the qualification**

Version 3 was issued in order to include new magnetism and electricity standards 25070-25072, which replaced expiring standard 15843.

Version 2 was issued in order to add standard 1978 as a compulsory standard to this qualification.

Version 1 of this qualification replaced the National Certificate in Electricity Supply (Level 2) [Ref: 0868]. People working towards any version of the replaced qualification

can either complete that qualification or transfer their achievements to this qualification. The last date for assessments to take place for the replaced qualification is 31 December 2009. Industry will continue to recognise the replaced qualification, and there should be no need to 'upgrade' by those who have already achieved it.

### Certification

The certificate will display the logos of NZQA, the Electricity Supply Industry Training Organisation and the accredited organisation.

### Classification

This qualification is classified according to the classification system listed on the Directory of Assessment Standards (DAS) and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

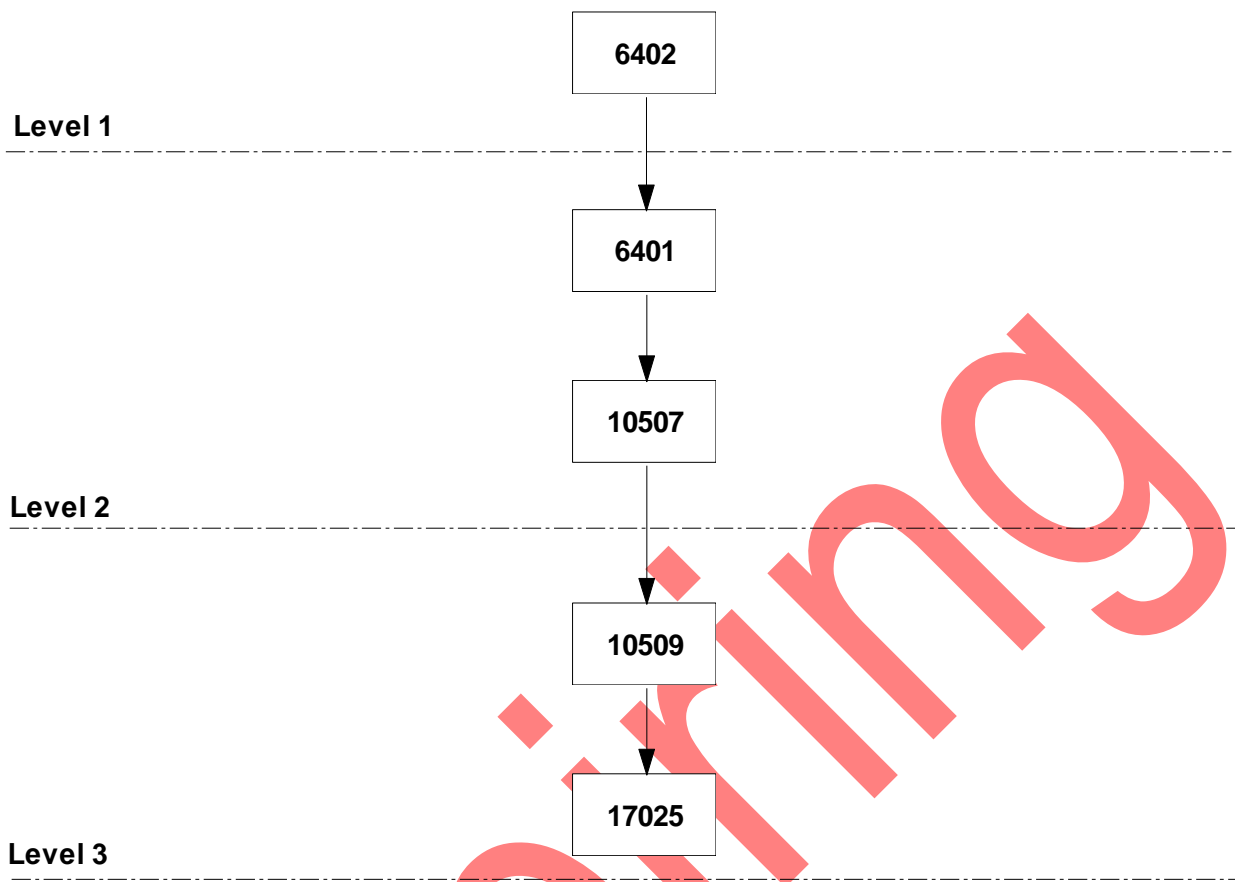
DAS Classification		NZSCED	
Code	Description	Code	Description
318	Engineering and Technology > Electricity Supply	031313	Engineering and Related Technologies > Electrical and Electronic Engineering and Technology > Electrical Fitting, Electrical Mechanics

#### Quality Management Systems

Providers and Industry Training Organisations must be granted consent to assess by a recognised Quality Assurance Body before they can register credits from assessment against standards. Organisation with consent to assess and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Consent to assess requirements and the moderation system are outlined in the associated Consent and Moderation Requirements (CMR) for each standard.



### Prerequisite Diagram



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