

National Certificate in Electricity Supply (Line Mechanic Distribution) (Level 4)

Level	4
Credits	118

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

Transition Arrangements

This qualification has been reviewed and replaced by New Zealand Certificate in Electricity Supply (Line Mechanic Distribution) (Level 4) [Ref: 2197].

All existing trainees can complete this qualification or transfer their results to the replacement qualification.

The start date for this qualification will be from publication. All new trainees will be enrolled in programmes leading to the New Zealand Certificate in Electricity Supply (Line Mechanic Distribution) (Level 4) [Ref: 2197] from 31 December 2014.

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

This qualification contains expired standards which have been replaced. For the purposes of this qualification people who have gained credit for the expired standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
18029	23899
10518	28192
12298	28113
16278	28195

It is anticipated that no existing candidates will be disadvantaged by these transition arrangements. However, anyone who feels that they have been disadvantaged may appeal to the Infrastructure Industry Training Organisation at the address below.

Appeals will be considered on a case by case basis.

NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	June 2001	December 2005
Revision	2	July 2002	December 2005
Review	3	September 2004	December 2009
Review	4	April 2008	December 2016
Review	5	June 2014	December 2017
Reinstatement	6	June 2017	December 2017

Standard Setting Body

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EXPIRING

National Certificate in Electricity Supply (Line Mechanic Distribution) (Level 4)

Level	4
Credits	118

Purpose

This national certificate is awarded to people who have demonstrated competence in the skills and knowledge required for employment as a Line Mechanic in the distribution sector of the electricity supply industry.

This qualification meets the requirements for registration as a Line Mechanic with the Electrical Workers Registration Board and covers the following distribution lines work.

Holders of this qualification will be able to:

- Demonstrate the requirements for holding access permits on high voltage electrical lines
- Joint electricity network overhead conductors
- Install and service street lighting
- Install and replace electricity network pole structures
- Install low voltage electricity network overhead conductors
- Evaluate faults on electricity supply network equipment
- Overhaul distribution pole and tower hardware
- Demonstrate knowledge of polarity and phasing in low voltage and high voltage electricity networks
- Install high voltage electricity network overhead conductors.

The qualification continues the pathway for trainees who seek to become live line mechanics in the distribution sector of the electricity supply industry, building on the knowledge and skills recognised by the National Certificate in Electricity Supply (Line Mechanic Distribution) (Level 3) [Ref: 1369]. It is the entry point for live distribution work as defined in New Zealand Electrical Code of Practice for High Voltage Live Line Work 46:2003 and is the prerequisite for those people wishing to progress into the National Certificate in Electricity Supply (Line Mechanic Distribution Live Work) (Level 5) [Ref: 1119].

Special Notes

Prerequisite: one of the following

National Certificate in Electricity Supply (Line Mechanic Distribution) (Level 3) with strands in Distribution, and Transmission [Ref: 1116]

National Certificate in Electricity Supply (Line Mechanic Distribution) (Level 3) [Ref: 1369] or demonstrate equivalent knowledge and skills.

Credit Range

Level 3 credits	37
Level 4 credits	81
Total	118

Requirements for Award of Qualification

Award of NQF 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 in section 7 of the New Zealand Qualifications Authority (NZQA) Rules and Procedures publications available at <http://www.nzqa.govt.nz/ncea/acrp/index.html>.

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

Detailed Requirements

Compulsory

The following standards are required

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

ID	Title	Level	Credit
17027	Demonstrate the requirements for holding access permits on high voltage electrical lines	3	2
19950	Use test instruments and carry out electrical testing in the electricity supply industry	3	3
23899	Carry out polarity and phasing on HV electricity networks	3	2

Engineering and Technology > Electricity Supply > Electricity Supply - Distribution Networks

ID	Title	Level	Credit
10511	Develop work plans for construction and servicing of overhead electricity lines and equipment	4	6
10512	Joint electricity network overhead conductors	3	4
10513	Determine condition of electrical lines	3	6
10521	Install and replace electricity network pole structures	4	10

ID	Title	Level	Credit
10522	Install low voltage (LV) electricity network overhead conductors	4	8
10526	Operate ground and structure mounted electrical equipment associated with electric lines up to 66kV	3	4
10529	Dismantle electricity network lines and structures	4	6
10544	Install power and telecommunications cables in an electricity supply environment	4	6
10545	Joint LV polymeric insulated power cables in the electricity supply industry	3	4
12295	Apply earths to and remove earths from overhead electric line conductors	3	4
17632	Overhaul distribution pole and tower hardware in electrical networks up to 66kV	4	8
18024	Install structure mounted electrical equipment in the electricity supply industry environment	4	6
20059	Terminate LV polymeric insulated power cables in the electricity supply industry	3	4
20423	Install high voltage electricity network overhead conductors	4	8
23896	Demonstrate knowledge of electrical circuit protection for Line Mechanics	3	4
28192	Demonstrate knowledge of street light installations	4	2
28113	Install pad and structure mounted electrical equipment	4	8
28195	Demonstrate knowledge of faults on electricity supply network plant and equipment	4	4

Transition Arrangements

Version 4

This qualification was issued as version 4 following a review.

Changes to structure and content

- Standard 16283 has been removed from the qualification.
- Standard 23896 has been added to the qualification.
- Standard 23899 replaced standard 18029.
- The credit total has decreased from 122 to 118.

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

People currently working towards previous versions of this qualification may either complete the requirements for that version or transfer their results to this version of the qualification.

All training programmes and courses from 1 January 2009 will lead to the award of version 4 of the qualification.

It is anticipated that no existing candidates will be disadvantaged by these transition arrangements. However, candidates may appeal in the first instance to Electricity Supply Industry Training Organisation, which will consider any appeal on a case-by-case basis. See contact address below.

Certification

The certificate will display the logos of NZQA, the provider and the Infrastructure Industry Training Organisation.

Classification

This qualification is classified according to the NQF classification system 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	031311	Engineering and Related Technologies > Electrical and Electronic Engineering and Technology > Power Line Installation and Maintenance

Quality Management Systems

Providers and Industry Training Organisations must be accredited by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.