

CONNEXIS
INFRASTRUCTURE TRAINING

NEW ZEALAND APPRENTICESHIP

LEVEL 4

Line Mechanic Distribution

NZA

NZQA #2197-2

169-179 CREDITS

27 MONTHS



 NEW ZEALAND
APPRENTICESHIPS

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askus@connexis.org.nz

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NZA

Line Mechanic Distribution

(Optional strand in live low voltage lines)



This course is designed to provide a recognised pathway in the electricity supply distribution industry.

This apprenticeship in Electricity Supply, Line Mechanic Distribution has an optional strand in live low voltage lines.

WHAT YOU'LL LEARN

- Working in the electricity supply industry as a Line Mechanic in the distribution sector.
- Installing, maintaining and replacing equipment at an intermediate level.
- Communicating effectively within your team.
- Learning how to apply knowledge of electrical theory, and industry standards and procedures.

Graduates of the optional strand will also be able to install and replace hardware associated with live low voltage lines.

HOW THE COURSE IS DELIVERED

This programme is assessed on-job and is completed through workbooks, or by attending off-job block courses through a provider, or a blend of both. It can also be achieved through Advanced Portfolio Assessment (APA). If the learner has a minimum of 4 years experience working in the industry, and can provide a portfolio of evidence from the past 24 months linking to the level of this programme's unit standards, then APA could be a great option to recognise existing skills.

ENTRY REQUIREMENTS

The learner must be employed in the electricity supply industry and exposed to the relevant skills covered. The learner must also hold the New Zealand Certificate in Electricity Supply (Introductory) (Level 2) or have proof of equivalent skills and knowledge, before being signed up to this qualification. Candidates must gain an Electrical Works' Registration Board (EWRB) Trainee Limited Certificate within three months of commencing this qualification to become registered as a Line Mechanic.

TRAINING PATHWAYS

Graduates will be qualified Line Mechanics who can apply for EWRB registration. Graduates can also continue to progress their training to the NZ Certificate in Electricity Supply (Power Technician) (Level 5), or move into one of our Live Line programmes.

Contact us now to enrol

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Programme Structure

The structure of this programme features five compulsory modules, including Capstone assessment, as well as a specialised strand option.

Module 1

Climb and work on electricity network structures and rescue a victim from an electrical structure

Terminate and joint de-energised low voltage polymeric insulated power cables

Demonstrate knowledge of electricity supply networks

Demonstrate knowledge of and operate light lifting and rigging equipment in an electricity supply environment

Module 2

Prepare a plan of work and produce freehand sketches for electricity installations and develop a work schedule from electrical lines design documents

Joint electricity network overhead conductors and install high voltage electricity network overhead conductors

Install electrical lines and cables in an electricity supply environment, dismantle electricity network lines and structures, and conduct an inspection of electrical lines

Overhaul distribution pole and tower hardware in electricity networks up to 66kV

Demonstrate knowledge of fault diagnosis and power restoration on electricity supply network plant and equipment and street light installations

Module 3

Install and replace electricity network pole structures and install pad and structure mounted electrical equipment

Operate electrical equipment associated with electric lines or cables up to 66 kV and operate a mobile elevating work platform (MEWP) in an electricity supply environment

Operate and store machinery, plant, and equipment in an electricity network environment

Describe polarity and phasing tests on electricity supply networks

Demonstrate knowledge of electrical circuit protection for electricity supply networks, and power transformer theory for electricity supply

Module 4

Install low voltage electricity network overhead conductors, and apply and remove earths from conductors on electricity supply networks

Demonstrate the requirements for holding access permits for work on electrical lines, cables, and equipment

Demonstrate knowledge of conductors, insulators and resistance in the electricity supply industry, and electrical test instruments and carry out electrical testing

Capstone Unit Standards

Demonstrate knowledge of electrical power, energy, cost of consumption, and inductors and capacitors in AC circuits

Install and commission network lines, and service a transformer using an access permit

Demonstrate and apply knowledge of legislation and codes of practice in the electricity supply industry

Live Low Voltage Lines Optional Strand

Replace and install hardware on live low voltage structures

