

CONNEXIS
INFRASTRUCTURE TRAINING

NEW ZEALAND APPRENTICESHIP

LEVEL 4

Cable Jointing

NZA

NZQA #2227-3

157-192 CREDITS

25-30 MONTHS



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NZA

Cable Jointing High Voltage (Optional strand in 33kV)



This course is designed to provide recognition for having the fundamental knowledge to work in the electricity supply industry as a Cable Jointer.

It includes skills required to work safely as a Cable Jointer on an electricity supply worksite to competently and safely complete tasks.

WHAT YOU'LL LEARN

- Applying knowledge of electrical theory to the construction and preparation of cables.
- Learning best practice to ensure the duties of a cable jointer are done safely and without disrupting electricity supply.
- Undertaking testing and commissioning procedures on power cables up to 22kV.
- Applying codes, legislation and industry standards and procedures to the jointing and termination of live power cables up to 22kV.

Graduates of the optional strand will be able to apply industry standards and procedures when performing the duties of a cable jointer undertaking work on power cables up to 33kV.

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

Learners must be employed in the electricity supply industry and exposed to the skills covered. It is recommended the learner hold the New Zealand Certificate in Electricity Supply (Introductory) (Level 2), before being signed up to this qualification. You must hold an EWRB Trainee Limited Certificate prior to starting the programme, for your training, assessment and experience to be accepted by the EWRB for registration as a cable jointer. If seeking dual registration (already registered as a Line Mechanic) a TLC is required for the class of license being applied for. For more information, see the EWRB website: ewrb.govt.nz

TRAINING PATHWAYS

Graduates will be qualified as a Cable Jointer and can apply for EWRB registration. They could also move into a career as a Line Mechanic or Fault Responder.

Contact us now to enrol

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Programme Structure

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

Module 1

Plan, identify and protect underground services during excavation and reinstatement

Carry out a rescue from an electricity supply services pit

Operate a cable spiking and cutting tool

Module 2

Demonstrate knowledge of electricity supply networks, electrical circuit protection and the installation of power cables

Joint live low voltage paper and polymeric insulated power cables in the electricity supply industry

Terminate live low voltage polymeric insulated power cables in the electricity supply industry

Prepare a plan of work and produce freehand sketches for electricity installations

Module 3

Joint and terminate high voltage polymeric insulated power cables up to 22kV in the electricity supply industry

Demonstrate knowledge of conductors, insulators and resistance in the electricity supply industry

Demonstrate knowledge of power cable construction and preparation, and power transformer theory for electricity supply

Demonstrate knowledge of electrical test instruments and carry out electrical testing, and describe polarity and phasing tests on electricity supply networks

Module 4

Operate electrical equipment associated with electric lines or cables up to 66 kV

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

Joint high voltage paper insulated cable to polymeric insulated cable up to 22kV using a transition jointing method

Capstone Unit Standards

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

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

Plan, joint, and test underground cables, and operate a cable spiking or cutting tool

33kV Optional Strand

Joint and terminate high voltage polymeric insulated power cables up to 33kV in the electricity supply industry

Joint high voltage paper insulated cable to polymeric insulated cable up to 33kV using a transition jointing method

