

**CONNEXIS**  
INFRASTRUCTURE TRAINING

NEW ZEALAND CERTIFICATE

LEVEL 4

# *Fault Response & Switching*

**NZC**

NZQA #3586-2

83-109 CREDITS

12-18 MONTHS



**Enrol Now**

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askus@connexis.org.nz  
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CIVIL ENERGY TELCO WATER

# NZC *Fault Response and Switching*

*(Strands in Fault Response and Network Switching)*



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

It includes skills required to work safely on an electricity supply worksite to competently and safely complete tasks required in fault response and switching.

## WHAT YOU'LL LEARN

Interpreting and applying knowledge of electrical codes of practice, and industry standards, when carrying out fault response or switching operations on electricity supply networks.

Graduates of the Fault Response strand will also be able to apply knowledge of fault finding, and carry out restoration of supply on distribution networks.

Graduates of the Network Switching strand will also be able to apply knowledge of complex network switching to work on distribution networks.

## HOW THE COURSE IS DELIVERED

This programme is assessed on-job, and is completed through workbooks, or by attending block courses through a provider. 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. It is recommended the learner also hold the New Zealand Certificate in Electricity Supply (Introductory) (Level 2), before being signed up to this qualification.

## TRAINING PATHWAYS

Graduates can continue to progress their training to the NZ Certificate in Electricity Supply (Power Technician) (Level 5).

**Contact us now to enrol**

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# Programme Structure

The structure of this programme features two compulsory modules, with two specialised strand options.

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## Module 1

Climb and work on electricity network structures

Operate electrical switchgear in the electricity supply industry

Apply and remove safety measures in an electricity supply environment

Rescue a victim from an electrical structure

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

Read and interpret single line diagrams in the electricity supply industry

Demonstrate knowledge of earthing in the electricity supply industry

## Module 2

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

Apply and remove earths from conductors on electricity supply networks

Demonstrate knowledge of three-phase theory in the electricity supply industry

Describe switching instructions and how to compile them, and action a switching instruction in electricity supply

Demonstrate knowledge of electrical circuit protection for electricity supply networks

## Fault Response Strand

Install low voltage electricity network overhead conductors

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

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

Locate faults, repair or replace faulty components in a distribution network to a consumer installation

Demonstrate knowledge of electrical legislation and installation testing as an endorsed line mechanic

## Network Switching Strand

Remove electricity supply field network equipment from service for access to work

Demonstrate knowledge of and operate metal clad switchgear

Respond to substation secondary systems alarms and indications in the electricity supply industry

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