

**CONNEXIS**  
INFRASTRUCTURE TRAINING

NEW ZEALAND CERTIFICATE

LEVEL 4

***Operation***  
***(Optional Strand in Hydro***  
***Operation)***

**NZC**

NZQA #3687

86-106 CREDITS

13-16 MONTHS



**Enrol Now**

CALL US: 0800 486 626  
askus@connexis.org.nz  
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**CIVIL** **ENERGY** **TELCO** **WATER**

# NZC *Operation* (optional strand in Hydro Operation)



This course is designed to provide recognition for the ability to work as a generation plant control room operator in the electricity supply industry.

It provides a recognised pathway in the electricity supply sector.

## WHAT YOU'LL LEARN

- Applying knowledge of the electricity generation sector in New Zealand and electricity supply core theory while working as an electricity generation plant control room operator.
- Operating equipment to isolate and connect electricity systems in compliance with industry standards and asset owner's specifications.
- Managing electricity supply system generation equipment as a control room operator.
- Ensuring that health and safety requirements are met while carrying out plant control room operations in the electricity supply industry.

Graduates of the Hydro Operation strand will also be able to use prime movers in hydro-electric generation plants, and manage water resources as a hydro-electric control room operator.

## HOW THE COURSE IS DELIVERED

This programme is assessed on-job or off-job through workbooks, or 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.

## TRAINING PATHWAYS

Graduates of this programme will be able to work as a generation plant control room operator in the electricity supply industry. Graduates with the optional Hydro Operation strand will be able to work as a Hydro Operator.

**Contact us now to enrol**

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# Programme Structure

The structure of this programme features four compulsory modules as well as one specialised strand option.

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## Module 1

Demonstrate knowledge of single and three phase transformers used in the electricity supply industry

Demonstrate knowledge of the electricity generation sector in New Zealand

Demonstrate knowledge of turbine governors used in electricity power plant

## Module 2

Apply and remove portable earths in an electricity supply system

Operate electrical switchgear in the electricity generation industry

Isolate and reinstate a section of an electricity generation plant

## Module 3

Demonstrate knowledge of faults, relay systems, and components of diagrams in power system protection systems

Operate and monitor an electricity generator and associated systems

Plan and compile a switching instruction in the electricity supply industry

Action and report on a switching instruction in the electricity supply industry

## Module 4

Operate electricity generation auxiliary plant and equipment

Handover operational plant

## Hydro Operation Optional Strand

Manage water resources for on site hydro-electricity generation

Demonstrate knowledge of water turbines for hydro-electric power plant

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