

CONNEXIS
INFRASTRUCTURE TRAINING

NEW ZEALAND APPRENTICESHIP

LEVEL 4

Network Control

NZA

NZQA #3721-3

148-155 CREDITS

24 MONTHS



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NZA Electricity Supply (Network Control)



This course is designed for people who are operating equipment on the electricity grid and supply networks.

It includes skills required to respond to fault events, plan network shutdowns and meet network company standards.

WHAT YOU'LL LEARN

- Operating equipment to isolate, connect, control and monitor the electricity grid and distribution system
- Ensuring asset owners' specifications are met during network plant operations
- Monitoring and responding to unforeseen, abnormal fault events
- Meeting network company and customer performance standards
- Planning network shutdowns
- Operating SCADA and Load Control systems
- Meeting health and safety requirements and meeting industry compliance measures while carrying out network plant operations.

HOW THE COURSE IS DELIVERED

This programme is assessed on-job through a mixture of theory and practical assessment. Examples of types of evidence required for practical assessment are:

- Logs, permit transactions
- Equipment operating transactions, instructions
- Communication scripts with stakeholders
- Network Shutdown planning
- Fault analysis, response, management
- SCADA operations, printouts
- Load management profiles, graphs, operations.

It can also be achieved through Advanced Portfolio Assessment (APA). If the learner has a minimum of 4 years experience working in the industry at the level of the qualification, and can provide a portfolio of evidence from within the past 24 months linking to the level of this programme's unit standards, then APA could be a great option.

Trainees are supported by a Connexis Customer Service Account Manager throughout their training.

ENTRY REQUIREMENTS

The learner must be employed in a relevant role in the electricity supply industry and exposed to the relevant skills covered.

TRAINING PATHWAYS

This programme can lead into 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 five compulsory modules, including one module with elective options.

Module 1

Demonstrate knowledge of electricity supply networks

Read and interpret single line diagrams in the electricity supply industry

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

Demonstrate knowledge of electrical circuit protection for electricity supply networks

Module 2

Respond to electricity supply external system operations communications

Monitor electricity supply power network system

Maintain and update operating log for electricity supply operational purposes

Demonstrate knowledge of SCADA systems in the Electricity Supply power system

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

Module 3

Compile and action switching plans to maintain electricity supply power network security

Handover operational plant

Isolate and reinstate a section of electricity distribution network

Module 4

Remove and return electricity supply network equipment from service for access for work (System Operation)

Use SCADA to manage the power system

Describe and apply the issuer's responsibilities for the management of access and test permits and assurances



Module 5

Apply and remove safety measures in an electricity supply environment

Diagnose faults on electricity supply power network equipment (System Operation)

Respond to power system events and emergencies on the electricity supply power system

Choose one Standard from the following

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

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

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

Choose a minimum of 18 credits, maximum 24 credits, from the following Unit Standards

Operate electrical switchgear in the electricity supply industry

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

Plan for scheduled work on electricity supply power system equipment

Demonstrate knowledge of electrical safety in the workplace

Action and report on an operating sequence in the electricity supply industry

Implement electricity network load management

Operate distribution network auxiliary plant and equipment

