

CONNEXIS
INFRASTRUCTURE TRAINING

NEW ZEALAND CERTIFICATE

LEVEL 4

Wastewater Treatment

NZC

NZQA #4142

70-120 CREDITS

12-22 MONTHS



 NEW ZEALAND
APPRENTICESHIPS

CIVIL | ENERGY | TELCO | WATER

Enrol Now

CALL US: 0800 486 626
askus@connexis.org.nz
connexis.org.nz



NZC *Wastewater Treatment*



Treat your team to success with this nationally recognised qualification in Wastewater Treatment.

This programme is recognised as a New Zealand Apprenticeship when it is completed with the optional strand in Multistage Processes.

WHAT YOU'LL LEARN

This programme covers:

- Protecting public health and the environment.
- Implementing, monitoring and communicating health and safety requirements.
- Operating a wastewater treatment plant to meet organisational and regulatory requirements.
- Monitoring wastewater treatment plant operation and interpreting compliance and operational data.
- Sampling, testing and reporting wastewater procedures for wastewater treatment.

The Multistage Processes strand covers:

- Operating a wastewater treatment plant with a combination of multistage processes to meet organisational and regulatory requirements.

HOW THE COURSE IS DELIVERED

This programme is assessed through a combination of e-learning assessment, off-job block courses and an on-site assessment.

ENTRY REQUIREMENTS

To enrol in this programme the learner must be working as an operator at a wastewater treatment plant. The learner should also have reasonable knowledge of maths and science to grasp the basic principles of this programme. To complete the optional strand the learner must be in a plant that has enough separate treatment processes to satisfy the elective section of the training plan.

TRAINING PATHWAYS

Graduates of this qualification will have the recognised skills to work as a Wastewater Treatment Plant Operator. Graduates can also progress to the NZ Diploma in Wastewater Treatment (Level 5) to continue their recognised training pathway.

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Programme Structure

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

Safety and Regulation

Implement a health and safety plan for a workplace

Demonstrate knowledge of the regulatory framework relevant to wastewater treatment

Oversee contractors and visitors on a water or wastewater treatment plant site

Theory and Operations

Demonstrate knowledge of basic science theory relating to water

Demonstrate knowledge of, and apply, mathematics in the water industry

Demonstrate knowledge of quality management in water and wastewater treatment plants

Describe, and undertake sampling and testing procedures for wastewater treatment

Describe the characteristics of, and sources that affect wastewater

Monitor and report on assets and describe operational costs for a water or wastewater treatment plant

Describe pathogens, diseases, and their control in water treatment

Sampling and Testing

Carry out microbiological monitoring for wastewater treatment

Perform and Produce

Operate and monitor a wastewater treatment plant

Describe and operate preliminary processes in wastewater treatment

Multistage Processes Optional Strand

Choose a minimum of 50 credits, maximum of 60 credits, from the following Unit Standards.

Describe and operate activated sludge processes in wastewater treatment

Describe and operate effluent disinfection processes in wastewater treatment

Describe and operate effluent filtration processes in wastewater treatment

Describe and operate nutrient removal processes in wastewater treatment

Describe and operate fixed growth reactor processes in wastewater treatment

Describe and operate separation processes in wastewater treatment

Describe and operate sludge treatment processes in wastewater treatment

Describe sludge and biosolids management processes in wastewater treatment

