

# Drinking-Water Treatment

**NZC**

NZQA #4138

70-120 CREDITS

12-22 MONTHS



# NZC Drinking-Water Treatment



Treat your team to success with this nationally recognised qualification.

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 drinking-water treatment plant to meet organisational and regulatory requirements.
- Monitoring drinking-water treatment plant operation and interpreting compliance and operational data.
- Sampling, testing and reporting drinking-water procedures for drinking-water treatment.

The Multistage Processes strand covers:

- Operating a drinking-water 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

The learner must be working as an operator at a drinking-water treatment plant to be enrolled in this programme. 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 drinking-water treatment plant operator. Graduates can also progress to the NZ Diploma in Drinking-water Treatment (Level 5).

**Contact us now to enrol**

CALL US: 0800 486 626

[askus@connexis.org.nz](mailto:askus@connexis.org.nz)

[connexis.org.nz](http://connexis.org.nz)



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# Programme Structure

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

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## Safety and Regulation

Implement a health and safety plan for a workplace

Demonstrate knowledge of the regulatory framework relevant to drinking-water supply

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

## Theory and Operations

Demonstrate knowledge of basic science theory relating to water

Describe quality sampling techniques and programme design for a water treatment site

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

Demonstrate knowledge of quality management in water and wastewater treatment plants

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

Undertake sampling and site testing procedures for drinking-water treatment

## Perform and Produce

Operate and report on a water treatment plant

Describe and operate chlorine disinfection processes in drinking-water treatment

## Multistage Processes Optional Strand

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

Demonstrate knowledge of surface water and groundwater sources

Describe and operate abstraction and pre-treatment processes in drinking-water treatment

Describe and operate clarification processes in drinking-water treatment

Describe and operate coagulation and flocculation processes in drinking-water treatment

Describe and operate media filtration processes in water treatment

Describe and operate membrane filtration processes in drinking-water treatment

Describe and operate ultraviolet disinfection processes in drinking-water treatment

Describe and operate waste management processes in water treatment

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