

National Certificate in Water Reticulation (Supervisor) (Level 4) with strands in Water, and Wastewater

Level 4

Credits 122-126

This qualification has been **reviewed**. The last date to meet the requirements is 31 December 2018.

Version 2 of this qualification has been republished to extend the last date of enrolment on programmes leading to it from 31 December 2015 to 31 December 2016.

Transition Arrangements

This qualification has been reviewed and replaced by the New Zealand Certificate in Pipe Installations (Level 4) with strands in Trenched, and Trenchless [Ref: 2694] and the New Zealand Certificate in Utilities Maintenance (Level 4) with strands in Water, and Wastewater and Stormwater [Ref: 2695].

The last date for entry into training programmes for the replaced qualification is 31 December 2016. The last date of assessment for the replaced qualification is 31 December 2018.

People currently working towards achievement of this qualification may either complete the requirements for that qualification or transfer their results to the replacement. However there are substantial differences between the new and the replaced qualifications, and it is recommended that candidates complete the qualification in which they are enrolled.

For detailed information see [Review Summaries](#) on the NZQA website.

This qualification contains standards that replace earlier standards. For the purposes of this qualification people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards.

Credit for	Exempt from
7743	22992

Any person who feels disadvantaged by these transition arrangements should contact Infrastructure ITO at the address below.

NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Award
Registration	1	October 2006	December 2018
Review	2	February 2015	December 2018
Republication	2	December 2015	December 2018

Standard Setting Body

Infrastructure Industry Training Organisation
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Email qualifications@connexis.org.nz
Website www.connexis.ac.nz

Reviewed

National Certificate in Water Reticulation (Supervisor) (Level 4) with strands in Water, and Wastewater

Level 4

Credits 122-126

Purpose

This qualification is for people who supervise maintenance and operations in water reticulation, and those with specialist skills in associated activities.

The qualification recognises the skills required to supervise and lead water reticulation projects involving plant, equipment, and vehicles; organise the supply and storage of materials; produce and use as-built plans; communicate with associated organisations, peers, and members of the public; implement permit requirements; and maintain records.

People will also have specialist water reticulation knowledge in areas such as, location of reticulation services, trenching, pipe jointing, asset management, and maintenance requirements; as well as general knowledge of hazard identification and control.

Strands recognise the skills and knowledge required to specialise in either water or wastewater within an organisation.

The Water strand includes the knowledge required for reticulation system cleaning and disinfection, pressure zones and backflow prevention, and water quality monitoring and preventative measures; along with the skills to service, clean, disinfect and restore reservoirs and reticulation mains, and maintain water quality in water supply reticulation systems.

The Wastewater strand includes the knowledge required for sewer management; wastewater composition, corrosion in sewers, and odour control; and wastewater flows and flow measurement. Wastewater management has particular safety requirements, and holders will also have the skills to safely enter, work in, and exit a confined space.

Both the core elective, and strand elective sections recognise variations between organisations, and work that is specific to locations.

The qualification builds on the knowledge and skills recognised by the National Certificate in Water Reticulation (Service Person) (Level 3) with strands in Water, and Wastewater [Ref: 0962].

Completion of this qualification can lead to other related qualifications in civil engineering such as the National Diploma in Civil Engineering [Ref: 0881].

Credit Range

	Core Compulsory	Core Elective
Level 3 credits	24	-
Level 4 credits	56	0-5
Level 5 credits	15	0-8
Minimum totals	95	5

	Water Strand		Wastewater Strand	
	Strand Compulsory	Strand Elective	Strand Compulsory	Strand Elective
Level 3 credits	8	0-17	6	0-3
Level 4 credits	15	0-9	13	0-5
Minimum totals	23	3	19	3
Qualification total with strand	126		122	

Requirements for Award of Qualification

This qualification will be awarded to people who have met the requirements of the core compulsory section, the core elective section, and one of the strands.

Award of NQF Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided in the Qualifications Authority *Rules and Procedures* publications available at www.nzqa.govt.nz/ncea/.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (Id). Any version of a standard with the same Id may be used to meet qualification requirements that list the Id and/or that specify the past or current classification of the standard.

Detailed Qualification Requirements

Core Compulsory

All the standards listed below are required.

Field Engineering and Technology
 Subfield Civil Works and Services
 Domain Civil Construction Supervision

Id	Title	Level	Credit
6427	Allocate plant, equipment, and vehicles to civil construction projects	4	8
6435	Notify members of the public affected by civil construction activities	3	3
6443	Supervise civil construction activities on multiple sites	5	15
6451	Implement notifiable work and permit requirements on civil construction works	4	5

Id	Title	Level	Credit
6456	Organise the supply and storage of materials for civil construction	3	4
22992	Prepare and maintain records for civil construction works	4	10

Domain Civil Construction Works

Id	Title	Level	Credit
6479	Locate and identify services on civil construction sites	3	4

Domain Civil Project Management

Id	Title	Level	Credit
6434	Liaise with client, consultant, and service authority on behalf of civil construction contractor	4	12

Subfield Water Industry
Domain Water Reticulation

Id	Title	Level	Credit
19201	Demonstrate knowledge of, and locate, reticulated services in the water industry	3	4
19204	Produce and use as-built plans in the water industry	3	4
22103	Describe trenching and demonstrate trench set-out requirements for water reticulation	4	4
22104	Demonstrate knowledge of pipe jointing systems for water reticulation	3	5
22108	Demonstrate knowledge of water reticulation asset management	4	3
22110	Describe water reticulation asset risk, and asset maintenance for water, wastewater and stormwater	4	4

Field Health
Subfield Occupational Health and Safety
Domain Occupational Health and Safety Practice

Id	Title	Level	Credit
5616	Assist in hazard identification and control for occupational health and safety practice	4	10

Core Elective

One of the standards listed is required.

Field Engineering and Technology
Subfield Civil Works and Services
Domain Civil Project Management

Id	Title	Level	Credit
6430	Demonstrate knowledge of conditions of contract for civil projects	5	8

Subfield Water Industry
Domain Water Reticulation

Id	Title	Level	Credit
22109	Demonstrate knowledge of pumps used in water reticulation	4	5

Water Strand Compulsory

All the standards listed below are required.

Field Engineering and Technology
Subfield Water Industry
Domain Water Reticulation

Id	Title	Level	Credit
19209	Demonstrate knowledge of water reticulation system cleaning and disinfection	3	4
19210	Service, clean, disinfect, and restore reservoirs or reticulation mains	3	4
22102	Demonstrate knowledge of pressure zones and backflow prevention in water reticulation	4	4
22105	Maintain water quality in water supply reticulation systems	4	6
22106	Describe water quality monitoring and preventative measures in water supply reticulation systems	4	5

Water Strand Elective

One of the standards listed is required.

Field Engineering and Technology
Subfield Water Industry
Domain Water Reticulation

Id	Title	Level	Credit
19207	Enter, work in, and exit a confined space in the water industry	3	3
22097	Demonstrate knowledge of rehabilitation and replacement of existing water pipe lines	3	3
22099	Demonstrate knowledge of water consumption and water conservation	3	4
22100	Demonstrate knowledge of leak detection and leak detection programmes	3	4
22101	Demonstrate knowledge of water meters and reading techniques, and identify faults in meters	3	3
22107	Prepare for and set up CCTV, and describe procedures for CCTV survey of water reticulation assets	4	4

Field Health
Subfield Occupational Health and Safety
Domain Occupational Health and Safety Practice

Id	Title	Level	Credit
17599	Plan a confined space entry	4	5

Wastewater Strand Compulsory

All the standards listed below are required.

Field Engineering and Technology
 Subfield Water Industry
 Domain Water Reticulation

Id	Title	Level	Credit
19207	Enter, work in, and exit a confined space in the water industry	3	3
22111	Demonstrate knowledge of sewer cleaning, blockage removal, overflow management and clean-up	3	3
22112	Demonstrate knowledge of wastewater composition, corrosion in sewers, odours, and odour control	4	4
22113	Demonstrate knowledge of flows in wastewater and flow measurement techniques	4	4

Field Health
 Subfield Occupational Health and Safety
 Domain Occupational Health and Safety Practice

Id	Title	Level	Credit
17599	Plan a confined space entry	4	5

Wastewater Strand Elective

One of the standards listed is required.

Field Engineering and Technology
 Subfield Water Industry
 Domain Water Reticulation

Id	Title	Level	Credit
22098	Demonstrate knowledge of rehabilitation and replacement of existing wastewater pipe lines	3	3
22107	Prepare for and set up CCTV and describe procedures for CCTV survey of water reticulation assets	4	4
22114	Demonstrate knowledge of stormwater systems and their maintenance, management and treatment options	4	5

Other standard setting bodies whose standards are included in the qualification

Infratrain New Zealand
 New Zealand Industry Training Organisation

Certification

The certificate will display the logos of the Qualifications Authority and Water Industry Training.

Classification

This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

DAS Classification		NZSCED	
Code	Description	Code	Description
1733	Engineering and Technology/Water Industry/Water Reticulation	030907	Engineering and Related Technologies/Civil Engineering/Water and Sanitary Engineering

Quality Management Systems

Providers and Industry Training Organisations must be accredited by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.

REVIEWING

Prerequisite Diagram

