

Qualification details

Qualification number/Te nama o te tohu mātauranga	2242		
English title/Taitara Ingarihi	New Zealand Certificate in Water Treatment (Level 4) with strands in Drinking-Water Treatment, Drinking-Water Multistage Process, Wastewater Multistage Process, and Wastewater Treatment		
Māori title/Taitara Māori			
Version number/Te putanga	3	Qualification type/Te momo tohu	Certificate
Level/Te kaupae	4	Credits/Ngā whiwhinga	70-120
NZSCED/Whakaraupapa	030907 Engineering and Related Technologies>Civil Engineering>Water and Sanitary Engineering		
Qualification developer/Te kaihanganga tohu	Connexis Infrastructure ITO		
Next review /Te rā arotake	31 December 2024		

Outcome statement/Te tauāki ā-hua

<p>Strategic Purpose statement/ Te rautaki o te tohu</p> <p>The purpose of this qualification is to provide the water treatment industry with individuals who have the skills and knowledge to be responsible for the day-to-day operation of a water treatment plant.</p> <p>The qualification is stranded to recognise the specialist skills required to work in either drinking-water treatment plants, or wastewater treatment plants, or drinking-water treatment plants with multistage processes, or wastewater treatment plants with multistage processes.</p> <p>The trainee will benefit from having a qualification within a training pathway that recognises the range of processes and technologies in water treatment plants, progression through the water industry, as well as increased skills and knowledge acquisition to improve job performance.</p> <p>The water industry, and the wider community, will benefit from having qualified operators of water treatment plants who are able to maintain compliance with all aspects of relevant legislation.</p>

Graduate Profile/Ngā hua o te tohu
<p>Graduates of this qualification will be able to:</p> <ul style="list-style-type: none"> • Oversee external contractors and visitors when on the water treatment plant site. <p>Graduates of the Drinking-Water Treatment strand will also be able to:</p> <ul style="list-style-type: none"> • Operate a drinking-water treatment plant using chlorine disinfection processes. • Monitor drinking-water treatment plant operation, and report findings. <p>Graduates of the Drinking-Water Multistage Process strand will also be able to:</p> <ul style="list-style-type: none"> • Operate a drinking-water treatment plant using chlorine disinfection processes • Monitor drinking-water treatment plant operation, and report findings. • Operate a drinking-water treatment plant with a combination of multistage processes <p>Graduates of the Wastewater Multistage Process strand will also be able to:</p> <ul style="list-style-type: none"> • Operate a wastewater treatment plant using preliminary treatment processes. • Monitor wastewater treatment plant operation, and report findings. • Operate a wastewater treatment plant with a combination of multistage processes. <p>Graduates of the Wastewater Treatment strand will also be able to:</p> <ul style="list-style-type: none"> • Operate a wastewater treatment plant using preliminary treatment processes. • Monitor wastewater treatment plant operation, and report findings.

Education Pathway/ Ngā huarahi mātauranga
<p>This qualification can lead on to the relevant strand of the New Zealand Diploma in Water Treatment (Level 5) with strands in Drinking-Water and Wastewater [Ref: 2245].</p>

Employment, Cultural, Community Pathway/ Ko ngā huarahi ā-mahi, ā-ahurea, ā-whānau, ā-hapū, ā-iwi, ā-hapori anō hoki
<p>Graduates of this qualification will have the knowledge and skills to work as drinking-water or wastewater treatment plant operators.</p>

Qualification Specifications/ Ngā tauwhāititanga o te tohu

Qualification Award/ Te whakawhiwhinga o te tohu	This qualification will be awarded by an organisation which has an approved programme, or industry training programme leading to the qualification.
Evidence requirements for assuring consistency/ Ngā taunaki hei whakaū i te tauritenga	<p>Evidence may include:</p> <ul style="list-style-type: none"> Internal and external moderation processes and results relating to the assessment of graduate outcomes Feedback and actions taken by the Tertiary Education Organisation in response to feedback Programme completion data and course results Post-graduate surveys (which must include survey of graduates and employers) Any other relevant evidence
Minimum standard of achievement and standards for grade endorsements/ Te pae o	Achieved

raro e tutuki ai, ngā paerewa hoki hei whakaatu i te taumata o te whakatutukinga	
Other requirements for the qualification (including regulatory body or legislative requirements)/ Kō ētahi atu here o te tohu (tae atu hoki ki ngā here ā-hinonga whakamarumarū, ki ngā here ā-ture rānei)	None
General conditions for programme/ Ngā tikanga whānui o te hōtaka	Competency for this qualification will typically be demonstrated in a workplace environment. All outcomes in this qualification require aspects of record keeping, communication, and workplace health and safety, which should be considered as part of the assessment process. Monitoring must include sampling and testing.

Conditions relating to the Graduate Profile /Ngā tikanga e hāngai ana ki nga hua o te tohu

Qualification outcomes/ Ngā hua	Credits/Ngā whiwhinga	Conditions/Ngā tikanga
1. Oversee external contractors and visitors when on the water treatment plant site.	10 credits	
Drinking Water Treatment strand		
2. Operate a drinking-water treatment plant using chlorine disinfection processes.	40 credits	
3. Monitor drinking-water treatment plant operation, and report findings.	20 credits	
Drinking Water Multistage Process strand		
4. Operate a drinking-water treatment plant using chlorine disinfection processes	40 credits	
5. Monitor drinking-water treatment plant operation, and report findings.	20 credits	
6. Operate a drinking-water treatment plant with a combination of multistage processes	50 credits	
Wastewater Multistage Process strand		
7. Operate a wastewater treatment plant using preliminary treatment processes	40 credits	
8. Monitor wastewater treatment plant operation, and report findings	20 credits	
9. Operate a wastewater treatment plant with a combination of multistage processes	50 credits	
Wastewater Treatment strand		
10. Operate a wastewater treatment plant using preliminary treatment processes	40 credits	
11. Monitor wastewater	20 credits	

	treatment plant operation, and report findings		
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Transition information/ He kōrero whakawhiti

<p>Replacement information/ He kōrero mō te whakakapi</p>	<p>Version 1 of this qualification replaced the National Certificate in Water Treatment (Level 4) [Ref: 0880] and the National Certificate in Wastewater Treatment (Level 4) [Ref: 0879].</p>
<p>Additional transition information/ Kō ētahi atu kōrero mō te whakakapi</p>	<p>Version 3 of this qualification was published in MONTH 2019 following a review. Refer to the published review summary for further information.</p> <p>The last date for assessments to take place for version 2 of this qualification is 31 December 2021. People currently working towards version 2 of this qualification may either complete the requirements for that version of the qualification by that date or transfer to version 3.</p> <p>It is the intention of Connexis Infrastructure ITO that no existing trainee should be disadvantaged by these transition arrangements. Any person who considers they have been disadvantaged may appeal to the qualification developer - Connexis_qualifications@connexis.org.nz or 04 499 9144.</p> <p>Version 2 of this qualification was published in November 2016 following a revision to transfer the qualification developer responsibility from Primary ITO to Infrastructure ITO; update qualification specifications; update specific conditions relating to the graduate profile outcome; and correct errors to the credits and wording of graduate profile outcomes.</p> <p>Version 1 of this qualification was republished in February 2015 to update the Evidence requirements for managing consistency.</p>