Qualification details

Drinking-Water, W			tificate in Water Treatment (Level 4) with strands in Nastewater, Drinking-Water Multistage Processes, and stage Processes	
Version		2	Qualification type	Certificate
Level		4	Credits	70-120
NZSCED			030907 Engineering and Related Technologies > Civil Engineering > Water and Sanitary Engineering	
Qualification developer		Infrastructure ITO		
Next review		December 2018	December 2018	
Approval date		November 2016	November 2016	
Strategi	c purpo	se statement	treatment industry w knowledge to be res water treatment plan The qualification is s required to work in e wastewater treatmen with multistage processes The trainee will bene training pathway tha technologies in wate water industry, as w acquisition to improv The water industry, having qualified ope able to maintain con legislation.	tranded to recognise the specialist skills ither drinking-water treatment plants, or at plants, or drinking-water treatment plants esses, or wastewater treatment plants with s. efit from having a qualification within a at recognises the range of processes and er treatment plants, progression through the ell as increased skills and knowledge
Outcome Statement	Gradu	ate profile	 Oversee externa treatment plant s Graduates of the Dri 	nking-Water Strand will also be able to: ng-water treatment plant using chlorine
Out			– Monitor drinking	-water treatment plant operation, and repo

	findings.
	Graduates of the Wastewater Strand will also be able to:
	 Operate a wastewater treatment plant with an average wastewater influent of 200 m³ per day, using preliminary treatment processes.
	 Monitor wastewater treatment plant operation, and report findings.
	Graduates of the Drinking-Water Multistage Process Strand wi also be able to:
	 Operate a drinking- water treatment plant using chlorine disinfection processes.
	 Monitor drinking-water treatment plant operation, and repo findings.
	 Operate a drinking-water treatment plant with a combination of three multistage processes.
	Graduates of the Wastewater Multistage Process Strand will al be able to:
	 Operate a wastewater treatment plant with an average wastewater influent of greater than 200 m³ per day, using preliminary treatment processes.
	 Monitor wastewater treatment plant operations, and report findings.
	 Operate a wastewater treatment plant with a combination of two multistage processes and wastewater influent greater than 200 m³ per day.
Education pathway	This qualification can build on the relevant context of the New Zealand Certificate in Water Treatment (Drinking-Water/Wastewater) (Level 3) [Ref: 2241], and 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].
Employment pathway	Graduates of this qualification will have the knowledge and ski to work as drinking-water or wastewater treatment plant operators.

Qualification specifications

Qualification award	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	Evidence may include: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	Achieved
Other requirements for the qualification (including regulatory body or legislative requirements)	None

General conditions for the programme leading to the qualification

General conditions for programme	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.

Conditions relating to the Graduate profile

lification outcomes	Conditions
Oversee external contractors and visitors when on the water treatment plant site. Credit 10	
king-Water Strand	
Operate a drinking-water treatment plant using chlorine disinfection processes. Credit 40	
Monitor drinking-water treatment plant operation, and report findings. Credit 20	Programmes must include sampling and testing procedures.
	and visitors when on the water treatment plant site. Credit 10 hking-Water Strand Operate a drinking-water treatment plant using chlorine disinfection processes. Credit 40 Monitor drinking-water treatment plant operation, and report findings.

4	Operate a wastewater treatment plant with an average wastewater influent of 200 m ³ per day, using preliminary treatment processes. Credit 40	
5	Monitor wastewater treatment plant operations and report findings. Credit 20	Programmes must include sampling and testing procedures.
Drin	king-Water Multistage Processe	es Strand
6	Operate a drinking-water treatment plant using chlorine disinfection processes. Credit 40	
7	Monitor drinking-water treatment plant operation, and report findings. Credit 20	Programmes must include sampling and testing procedures.
8	Operate a drinking-water treatment plant with a combination of three multistage processes. Credit 50	Programmes must include a combination of at least three water treatment processes.
Was	stewater Multistage Processes S	trand
9	Operate a wastewater treatment plant with a wastewater influent of greater than 200 m ³ per day using preliminary treatment processes. Credit 40	
10	Monitor wastewater treatment plant operation, and report findings. Credit 20	Programmes must include sampling and testing procedures.

11	Operate a wastewater treatment plant with a combination of two multistage processes and wastewater influent greater than 200 m ³ per day.	Programmes must include a combination of at least two wastewater treatment processes.
	Credit 50	

Transition information

Replacement information	This qualification replaced the National Certificate in Water Treatment (Level 4) [Ref: 0880] and the National Certificate in Wastewater Treatment (Level 4) [Ref: 0879].
, , ,	es leading to the replaced qualifications is 30 June 2017. The last ations is 31 December 2018 at which time they will be discontinued.
Trainees currently enrolled in programmes leading to the replaced qualifications may either complete that qualification or transfer their results to this replacement qualification.	
There are no registered programmes leading to Version 1 of this qualification and no candidates working towards Version 1. All new candidates are expected to enrol in Version 2 from date of publication.	
	that no existing trainee should be disadvantaged by these transition ders they have been disadvantaged may appeal to the qualification xis) at <u>qualifications@connexis.org.nz</u> or 04 499 9144.

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 and update qualification specifications
- update specific conditions relating to the graduate profile outcome
- Correct errors to the credits and wording of graduate profile outcomes

Version 1 of this qualification was republished in February 2015 to update the Evidence requirements for managing consistency.