

Title	Demonstrate knowledge of water reticulation asset management		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to: describe the relationship between maintenance and operations contracts, and council strategic goals, asset management plans, risk management plans and emergency response plans; and demonstrate knowledge of the requirements for reticulation asset data.
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Classification	Water Industry > Water Reticulation
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Available grade	Achieved
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Explanatory notes

- 1 Legislation and references relevant to this unit standard include: Local Government Act 2002, and local authority bylaws; Civil Defence Emergency Management Act 2002; Health Act 1956, and subsequent amendments; NZS 9201.7:2007 *Model general bylaws - Water supply*, and AS/NZS ISO 31000:2009 *Risk management - Principles and guidelines*, available from <http://www.standards.govt.nz>; *Drinking Water Standards for New Zealand 2005 (Revised 2008)*, Ministry of Health, Wellington; *International Infrastructure Management Manual*, published by Institute of Public Works Engineering Australasia (2015), available for ordering from <http://www.nams.org.nz>; Local Authority Long Term Plans, available from local authorities.
- 2 Definition
Water reticulation – in this context refers to all pipe systems, pumping systems, and components that contribute to the distribution of water, and collection and disposal of wastewater and stormwater.

Outcomes and evidence requirements

Outcome 1

Describe the relationship between maintenance and operations contracts, and council strategic goals, asset management plans, risk management plans and emergency response plans.

Evidence requirements

- 1.1 Maintenance and operations contract service levels are described in relation to the council strategic goals.
- 1.2 Asset management plans are described in terms of their purpose, and relationship with maintenance and operations contracts.

 Range levels of service, condition of assessment, renewal programmes, operational and maintenance plans.
- 1.3 Risk management plans are described in terms of their purpose, and relationship with maintenance and operations contracts.
- 1.4 Emergency response plans are described in terms of their purpose, and relationship with maintenance and operations contracts.

Outcome 2

Demonstrate knowledge of the requirements for reticulation asset data.

Evidence requirements

- 2.1 Reticulation asset data is identified in terms of type and features.

 Range asset type includes but is not limited to – pipelines, fittings, pump stations, reservoirs;
 features include but are not limited to – make, model, size, location, asset condition.
- 2.2 Reticulation asset data is described in terms of its use.

 Range includes but is not limited to – update council’s geographical information system (GIS) and asset management system (AMS), determine valuation of assets, remaining life profiles, depreciation and renewal funding, maintenance operations, renewal or improvement programmes, condition assessment.

Planned review date	31 December 2021
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 October 2005	31 December 2016
Rollover and Revision	2	20 February 2009	31 December 2016
Rollover	3	21 July 2011	31 December 2018
Review	4	16 March 2017	N/A

Consent and Moderation Requirements (CMR) reference	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Infrastructure Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.