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| Title | Carry out maintenance operations on complex water reticulation assets | | |
| Level | 4 | Credits | 12 |

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| Purpose | People credited with this unit standard are able to carry out maintenance operations on complex water reticulation assets. |
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| Classification | Infrastructure Works > Pipeline Construction and Maintenance |
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| Available grade | Achieved |
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Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable legislative and company requirements.
- 2 Legislation relevant to this unit standard includes: Health and Safety at Work Act 2015 and any subsequent amendments.
- 3 **Definitions**
Complex water reticulation assets include the mechanical and electrical plant and equipment associated with water industry infrastructure assets such as pumps, mechanical screens, water booster stations and treatment devices.
Control valves include pressure reducing valves, pressure sustaining valves, flow control valves, pressure relief valves, non-return valves.
Industry requirements refer to relevant policies, processes, methodologies, industry codes of practice, site specific health and safety plans, standard operating procedures, site safety plans, quality plans, work plans, traffic management plans, contract work programmes, job safety analysis, safe work method statements, job instructions, manufacturer's requirements, contract specifications, manuals, procedural documents, Waka Kotahi New Zealand Transport Agency specifications and guidelines.
Water reticulation refers to networks for drinking-water, wastewater, or stormwater.
- 4 It is recommended learners achieve Unit 32816, *Demonstrate knowledge of complex water reticulation assets, their components and fittings, and procedures used for them* or demonstrate equivalent knowledge and skills before starting this unit standard.

Outcomes and performance criteria

Outcome 1

Carry out maintenance operations on complex water reticulation assets.

Range evidence of work on three different types of complex water reticulation assets is required.

Performance criteria

- 1.1 Job instructions are checked and confirmed, and materials and tools are selected.
- 1.2 Complex water reticulation asset is isolated.
- 1.3 Plant and equipment are lifted safely.
- 1.4 Control valves and any mechanical screens are cleaned and maintained.
- 1.5 Components, wet wells, chambers, pumps, screens and ancillary equipment are cleaned and maintained.
- 1.6 Any required new components are installed.
- 1.7 Condition and operation of complex water reticulation asset is tested, monitored and reported.

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| Planned review date | 31 December 2026 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|-------------------|--------------------------|
| Registration | 1 | 27 September 2018 | 31 December 2023 |
| Review | 2 | 26 August 2021 | N/A |

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| 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>.

Comments on this unit standard

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