

Title	Demonstrate knowledge of sewer cleaning, blockage removal, overflow management and clean-up		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to demonstrate knowledge of: sewer cleaning; sewer blockage removal; and sewer overflow management and clean-up procedures.
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Classification	Water Industry > Water Reticulation
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Available grade	Achieved
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Guidance Information

- 1 Legislation and references relevant to this unit standard include: Health Act 1956, Health and Safety at Work Act 2015, Local Government Act 2002, Resource Management Act 1991, and subsequent amendments; AS 2865:2009 *Confined spaces*, available from <https://infostore.saiglobal.com/>; NZS 4404:2010 *Land Development and Subdivision Infrastructure*, available from <http://www.standards.govt.nz/>; Local authority hygiene codes.
- 2 Definition
Water reticulation – in this context refers to all pipe systems, pumping systems, and components that contribute to the collection and disposal of wastewater and stormwater.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of sewer cleaning.

Performance criteria

- 1.1 Sewer cleaning is described in terms of the reasons for cleaning for specified situations.

Range three reasons for cleaning.
- 1.2 Sewer cleaning is described in terms of the techniques used for specified situations.

Range hydrojetting, root cutting, 'pigging', dragging, pressure bucket.

Outcome 2

Demonstrate knowledge of sewer blockage removal.

Performance criteria

2.1 Blockage removal is described in terms of the techniques used for specified situations.

Range vacuum suction, rodding, water jetting, root cutting, root killing, excavation.

Outcome 3

Demonstrate knowledge of sewer overflow management and clean-up procedures.

Performance criteria

3.1 Overflow is described in terms of the potential causes, and the factors contributing to these causes.

3.2 Overflow is described in terms of the potential effects on the environment and public health.

3.3 Overflow is described in terms of the requirements for resource consents.

3.4 Flow management is described in terms of the methods to mitigate the effects of overflows and situations in which they would be used.

Range includes but is not limited to – pump shut-down and storage, bypass pumping, tankering, containment options.

3.5 The procedures for disposal of contaminated debris from overflows or material removed during sewer cleaning are described in accordance with legislative requirements and environmental implications.

Replacement information	This unit standard, unit standard 19213, unit standard 19214, unit standard 19215, and unit standard 22098 were replaced by unit standard 31450.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

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	2	20 February 2009	31 December 2016
Rollover	3	21 July 2011	31 December 2018
Review	4	16 March 2017	31 December 2021
Review	5	27 September 2018	31 December 2021

Consent and Moderation Requirements (CMR) reference

0101

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.