

Title	Describe trenchless pipe installation, and pipe refurbishment or maintenance		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to describe the equipment used, sequence of operation, material handling, and safety requirements, for: trenchless pipe installation; and pipe refurbishment or maintenance.
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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 and Safety at Work Act 2015, Resource Management Act 1991, and subsequent amendments; *Excavation Safety – Good Practice Guidelines 2016*, available from <http://www.worksafe.govt.nz/worksafe/information-guidance/all-guidance-items/excavation-safety-gpg>.
- 2 Definition
Organisational procedures – instructions to staff, and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – site specific requirements, manufacturers' specifications, product quality specifications, and legislative or regulatory requirements.

Outcomes and performance criteria

Outcome 1

Describe the equipment used, sequence of operation, material handling, and safety requirements, for trenchless pipe installation.

Range evidence is required for at least two types of trenchless pipe installation.

Performance criteria

- 1.1 The equipment used in trenchless pipe installation is described in terms of its purpose and alternative equipment.
- 1.2 Pipe installation using trenchless pipe technology is described in terms of the sequence of tasks required to ensure pipe alignment.

- 1.3 Pipe material types used in trenchless pipe installation are described in terms of their suitability and handling requirements.
- 1.4 The safety requirements of trenchless pipe installation are described in terms of organisational procedures, legislative requirements, and manufacturer's instructions.

Outcome 2

Describe the equipment used, sequence of operation, material handling, and safety requirements for pipe refurbishment or maintenance.

Range evidence is required for at least two types of refurbishment or maintenance.

Performance criteria

- 2.1 The equipment used in pipe refurbishment or maintenance is described in terms of purpose, suitability and alternatives.
- 2.2 The sequence of tasks required to prepare for refurbishment or maintenance, and refurbish or maintain pipes using pipe refurbishment or maintenance technology, is described in terms of the refurbishment or maintenance method.
- 2.3 The pipe handling requirements are described in terms of the location of the trench and the pipe material, the methods of refurbishment or maintenance, and manufacturer's instructions.
- 2.4 The safety requirements of pipe refurbishment or maintenance are described in terms of organisational procedures, legislative requirements, manufacturer's instructions, and codes of practice.

Replacement information	This unit standard and unit standard 24918 replaced unit standard 19202.
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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	19 September 2008	31 December 2018
Review	2	16 March 2017	31 December 2021
Review	3	27 September 2018	31 December 2021

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>.