

Title	Install pipes using trenchless methodology		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to prepare to install pipes, and install pipes, using trenchless methodology.
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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 Legislation and references relevant to this unit standard include: Health and Safety at Work Act 2015, Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2016, Resource Management Act 1991, and Electricity Act 1992;
Excavation Safety – Good Practice Guidelines July 2016 and NZECP 34:2001 – *New Zealand Electrical Code of Practice for Electrical Safe Distances*, available from <https://worksafe.govt.nz>;
NZS 4404:2010 *Land Development and Subdivision Infrastructure*, available from <http://www.standards.govt.nz>;
territorial authority requirements.
- 2 Assessment against this unit standard must take place in a workplace environment. Assessment parameters will depend on company and site-specific equipment, procedures, and practices. Practices must reflect industry best practice and comply with legislative requirements.
- 3 Evidence must be provided for three different installation operations.
- 4 Definitions
Company requirements include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements applicable to the company or a specific site. Requirements are documented in the company's health and safety plans, traffic management plans, contract work programmes, quality assurance programmes, policies, and procedural documents.
Contract specifications include plans, diagrams, and special technical conditions. They do not include special administrative conditions.

Outcomes and performance criteria

Outcome 1

Prepare to install pipes using trenchless methodology.

Performance criteria

- 1.1 Pipe installation requirements are determined from installation plan and confirmed in accordance with contract specifications and company requirements.
- 1.2 Plant, equipment and materials are selected and checked to ensure fitness for purpose in accordance with installation requirements and company requirements.
- 1.3 Site conditions are checked and confirmed as suitable for installation to take place in accordance with contract specifications and company requirements.
- 1.4 Location of existing services is confirmed against design plan or lay plan prior to starting work, and any required adjustments to meet minimum clearances are made in accordance with company requirements.
- 1.5 Site management and communication requirements are confirmed as in place before commencement of work.
- Range site safety plan, consents and permits, environmental plan, any traffic management plan, installation tracking system.

Outcome 2

Install pipes using trenchless methodology.

Performance criteria

- 2.1 Alignment of hole, including tracking and adjustment of bore path, is carried out in accordance with contract specifications and company requirements.
- 2.2 Pipe is installed without damage to pipe or existing services in accordance with contract specifications and company requirements.
- 2.3 Installation is monitored and any required adjustments made to ensure installation is in accordance with contract specifications.
- 2.4 Corrective actions for issues arising during installation are described in accordance with company requirements.
- Range three different issues.
- 2.5 Plant and equipment is operated safely, efficiently, and within operating parameters in accordance with company requirements.
- 2.6 As-built plans and quality assurance documentation are completed in accordance with contract specifications and company requirements.

Replacement information	This unit standard and unit standard 31575 were replaced by unit standard 32819.
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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	29 November 2018	31 December 2025
Review	2	26 August 2021	31 December 2025
Revision	3	29 September 2022	31 December 2025

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>.