

Title	Rehabilitate pipes using trenchless methodology		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to prepare to rehabilitate pipes, and rehabilitate pipes, using trenchless methodology.
----------------	--

Classification	Infrastructure Works > Pipeline Construction and Maintenance
-----------------------	--

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Legislation and references relevant to this unit standard include: Health and Safety at Work Act 2015, 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 rehabilitation 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 rehabilitate pipes using trenchless methodology.

Performance criteria

- 1.1 Pipe rehabilitation requirements are determined from plan and confirmed in accordance with contract specifications and company requirements.
- 1.2 Plant, equipment, liner, and materials are selected and checked to ensure fitness for purpose in accordance with contract specifications and company requirements.
- 1.3 Host pipe conditions are checked and confirmed as suitable for rehabilitation to take place in accordance with contract specifications and company requirements.
- 1.4 Temporary supply and/or bypass flow management requirements are determined and confirmed as in place before commencement of work, in accordance with contract specifications and company requirements.
- 1.5 Site management and communication requirements are determined and confirmed as in place before commencement of work.

Range site safety plan, environmental plan, any traffic management plan, rehabilitation tracking system.

Outcome 2

Rehabilitate pipes using trenchless methodology.

Performance criteria

- 2.1 Host pipe is prepared in accordance with contract specifications and company requirements.
- 2.2 Liner is prepared and handled during rehabilitation in accordance with manufacturer's instructions and company requirements.
- 2.3 Pipe is rehabilitated without damage to pipe or liner in accordance with contract specifications and company requirements.
- 2.4 Rehabilitation process is monitored and any required adjustments made to ensure rehabilitation is in accordance with contract specifications.
- 2.5 Utility connection positions are located and connections are prepared and reconnected in accordance with contract specifications and company requirements.
- 2.6 Corrective actions for issues arising during rehabilitation are described in accordance with company requirements.

Range three different issues.
- 2.7 Plant and equipment is operated safely, efficiently, and within operating parameters in accordance with company requirements.

- 2.8 Completion and quality assurance documentation are completed in accordance with contract specifications and company requirements.

Replacement information	This unit standard and unit standard 31574 were replaced by unit standard 32819.
--------------------------------	--

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 2023
Review	2	26 August 2021	31 December 2023

Consent and Moderation Requirements (CMR) reference	0101
--	------

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