

Title	Carry out work operations for pipeline construction		
Level	3	Credits	20

Purpose	People credited with this unit standard are able to: demonstrate knowledge of pipeline construction; and carry out work operations for pipeline construction.
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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 and Resource Management Act 1991; *Excavation Safety – Good Practice Guidelines*, available from <https://worksafe.govt.nz>; NZS 4404:2010 *Land Development and Subdivision Infrastructure*, available from <http://www.standards.govt.nz>.
- 2 Assessment against this unit standard must take place in a workplace environment and the context must be specific to the candidate’s own role on site. Assessment parameters depend on company and site-specific equipment, procedures, and practices. Practices must reflect industry best practice and comply with legislative requirements.
- 3 Definitions
Company requirements include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements that may apply across the company or to a specific site. Requirements are documented in the company health and safety plans, traffic management plans, contract work programmes, quality plans, policies, and procedural documents.
Job instructions are instructions given to the operator prior to undertaking a job. They may include site safety instructions, contract drawings, and written memos.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of pipeline construction.

Performance criteria

- 1.1 Pressure and gravity pipe systems are described in terms of purpose and function, and requirements for their installation.

- 1.2 Types and classes of pipe are described in terms of their features, pressure ratings, handling and storage requirements, and uses.
- Range three types of pipe.
- 1.3 Pipe installation methods are described in terms of process and equipment used, and in accordance with company requirements.
- 1.4 Fittings used in construction of pipelines are described in terms of their purpose, function, and suitability for specific applications.
- 1.5 Structures used in pipelines are described in terms of their purpose and function.
- 1.6 Property services connections are described in terms of their component parts and sizing.
- 1.7 Public health considerations when installing pipelines are explained in accordance with company requirements.
- 1.8 Causes of pipe failure associated with installation are identified and described in terms of their effects and prevention techniques.

Outcome 2

Carry out work operations for pipeline construction.

Performance criteria

- 2.1 Job instructions are obtained and confirmed, and materials and tools are selected in accordance with company requirements.
- 2.2 All safety, environmental, and communication protocols are confirmed as in place before starting work in accordance with company requirements.
- 2.3 Excavation and any required groundwater control are carried out safely and in accordance with company requirements.
- 2.4 Any required bedding material is installed in accordance with job instructions and company requirements.
- 2.5 Pipes, components, and/or joints, and any required structures are installed in accordance with job instructions and company requirements.
- 2.6 Pipeline is cleared and prepared for commissioning in accordance with job instructions and company requirements.
- 2.7 Backfill, compaction and reinstatement are completed in accordance with job instructions and company requirements.

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	27 September 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>.