

Title	Carry out excavation and post-excavation reinstatement work for pipeline construction or maintenance		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: prepare to carry out excavation work; carry out excavation work; and carry out post-excavation reinstatement, for pipeline construction or maintenance.
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Classification	Infrastructure Works > Infrastructure Works Utilities
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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;
SNZ HB 2002:2003 *Code of Practice for Working in the Road*, available from <http://www.standards.govt.nz>;
National Code of Practice for Utilities' Access to the Transport Corridors available from <http://www.nzuag.org.nz/national-code/>;
NZS 4404:2010 *Land development and subdivision infrastructure*; both available from <http://www.standards.govt.nz>;
Excavation Safety – Good Practice Guidelines 2016, available from <http://www.worksafe.govt.nz/>;
Code of Practice for Temporary Traffic Management, available from <http://www.nzta.govt.nz/resources/code-temp-traffic-management>.
- 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 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 carry out excavation work for pipeline construction or maintenance.

Performance criteria

1.1 Scope and method of excavation, trench shoring, and reinstatement requirements are determined and confirmed from plan in accordance with contract specifications and company requirements.

1.2 Plant and equipment is selected in accordance with excavation method and company requirements.

1.3 Site management and communication requirements are identified and confirmed as in place before commencement of work.

Range site safety plan, environmental plan, any traffic management plan, services plan, notifications.

Outcome 2

Carry out excavation work for pipeline construction or maintenance.

Performance criteria

2.1 Trench is set-out in accordance with contract specifications and company requirements.

Range depth, gradient, horizontal alignment.

2.2 Any required shoring is carried out to ensure trench does not collapse, in accordance with company requirements.

2.3 Excavation is carried out to achieve required depth, gradient, and horizontal alignment in accordance with contract specifications and company requirements.

Outcome 3

Carry out post-excavation reinstatement for pipeline construction or maintenance.

Performance criteria

3.1 Bed preparation and trench backfilling are carried out in accordance with contract specifications and company requirements.

3.2 Compaction is carried out to achieve a uniform, stable density in accordance with contract specifications and company requirements.

3.3 Any required tests are arranged, results of testing are interpreted, and appropriate action is taken to ensure specified bearing strength is achieved.

- 3.4 Trench surface is prepared for final reinstatement in accordance with contract specifications and company requirements.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	29 November 2018	N/A

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>.

Comments on this unit standard

Please contact Connexis Infrastructure ITO qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.