

Title	Demonstrate knowledge of excavation for infrastructure pipelaying		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to demonstrate knowledge of excavation safety for infrastructure pipelaying, and describe infrastructure pipelaying excavation operational requirements and procedures.
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Classification	Civil Works and Services > Civil Construction Works
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Available grade	Achieved
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Guidance Information

- 1 The following legislation and requirements apply to this unit standard:
 Health and Safety at Work Act 2015
 Resource Management Act 1991;
Excavation Safety – good practice guidelines, available from <https://worksafe.govt.nz/>;
 Territorial authority requirements.
- 2 Assessment against this unit standard may be based on evidence from a provider and/or workplace context.
- 3 Definition
Infrastructure pipelaying refers to the installation of infrastructure pipes, fittings, and associated structures in the road and elsewhere, normally beyond the boundary of private property. Infrastructure pipes include sanitary sewage and stormwater, and may include pipes or ducting for other services such as water, gas, electricity, or telecommunications. For the purposes of this unit standard it does not include the commissioning of the pipes or the installation of services they may house.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of excavation safety for infrastructure pipelaying.

Performance criteria

- 1.1 General safety provisions are described in terms of *Excavation Safety – good practice guidelines* and in relation to infrastructure pipelaying.
- 1.2 Recommended safe practices are described in terms of *Excavation Safety – good practice guidelines* and in relation to infrastructure pipelaying.

- 1.3 Methods of shoring in *Excavation Safety – good practice guidelines* are evaluated in terms of their application to infrastructure pipelaying.
- 1.4 Open excavations are described in terms of *Excavation Safety – good practice guidelines* and in relation to infrastructure pipelaying.
- 1.5 Territorial authority excavation safety requirements are identified for two different infrastructure pipelaying operations.

Outcome 2

Describe infrastructure pipelaying excavation operational requirements and procedures.

Range any two of – water, sanitary sewage, stormwater, ducting; includes excavation over 1.5 metres in depth for at least one operation.

Performance criteria

- 2.1 Description identifies and explains plant and equipment required for the excavation.
- 2.2 Description explains clearances in relation to pipe diameter and working space for installation of any structures.
- 2.3 Description explains procedural considerations in terms of operational efficiency.
- Range includes but is not limited to – positioning of plant and any trucks, direction of excavation, placement of small plant, placement of spoil.

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	26 January 2007	31 December 2020
Review	2	21 November 2008	31 December 2020
Review	3	24 January 2019	31 December 2020
Reinstatement	4	27 May 2021	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>.