

Title	Describe open cut trench excavation, and the physical implications of dewatering		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to demonstrate knowledge of: the equipment used, procedures, and safety requirements for, open cut trench excavation; and the physical implications of dewatering.
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Classification	Water Industry > Water Reticulation
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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,
Resource Management Act 1991, and subsequent amendments;
Excavation Safety – Good Practice Guidelines 2016, available from
<http://www.worksafe.govt.nz/worksafe/information-guidance/all-guidance-items/excavation-safety-gpg>.
- 2 Definition
Organisational procedures – instructions to staff, and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – site specific requirements, manufacturers’ specifications, product quality specifications, and legislative or regulatory requirements.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the equipment used, procedures, and safety requirements for, open cut trench excavation.

Performance criteria

- 1.1 The equipment used in open cut trench excavation is described in terms of its purpose, and alternative equipment.
- 1.2 The sequence of tasks required to excavate a trench using open cut trench excavation is described in terms of the location of the trench and in accordance with organisational procedures.

- 1.3 The materials excavated are described in terms of their type, excavation requirements, techniques for handling, and disposal in accordance with organisational procedures.
- 1.4 The safety requirements of open cut trench excavation are described in terms of organisational procedures and legislative requirements, and equipment manufacturer’s safety instructions.
- 1.5 Backfilling materials are described in terms of their reasons and suitability for use, and methods of placement, in specified situations.
- 1.6 Trench depth is described in terms of the implications for pipe loading and local authority requirements.

Outcome 2

Demonstrate knowledge of the physical implications of dewatering.

Performance criteria

- 2.1 The physical implications of dewatering are described in terms of the changes that occur in the surrounding environment.

Range changes to – the physical characteristics of the ground, foundations, the water table.

Replacement information	<p>This unit standard and unit standard 22103 were replaced by unit standard 31518.</p> <p>This unit standard and unit standard 24919 replaced unit standard 19202.</p>
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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	19 September 2008	31 December 2018
Review	2	16 March 2017	31 December 2021
Review	3	29 November 2018	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>.