

Title	Construct and install an earth retaining structure		
Level	4	Credits	12

Purpose	People credited with this unit standard are able to: confirm requirements for constructing and installing an earth retaining structure; construct and install an earth retaining structure; and clear the worksite on completion of work.
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Classification	Infrastructure Works > Infrastructure Civil Works
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Available grade	Achieved
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Guidance Information

- 1 The following legislation, regulations and codes of practice must be complied with:
 - Health and Safety in Employment Act 1992; and Health and Safety in Employment Regulations 1995;
 - Resource Management Act 1991
 - Conservation Act 1987
 - Historic Places Act 1993
 - Accidental Discovery Protocol
 - Local Authority regulations
 - Local Authority Engineering Codes of Practice (ECOP).
- 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 Assessment of this unit standard does not include the construction of retaining walls. Constructing retaining walls is covered in unit standards 13026, and 13062.

This unit standard refers to the construction and installation of earth retaining structures for the purpose of alterations to existing land surfaces to suit the activity proposed; such as in the construction of dams, batters, canals, water race, causeways, berms, bunds, changing the topography of the land for the purpose of land development, subdivisions, roadway construction, and waterways.
- 4 Evidence is required for the construction and installation of one earth retaining structure using one of the following methods: cantilever wall, anchor wall, mechanically stabilised earth (MSE), gabion mesh, soil nailing.
- 5 Definitions

Company requirements include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements applicable to the

company and/or a specific site. Requirements are documented in the company's health and safety plans, environment management plans (EMP), traffic management plans (TMP), inspection and test plans (ITP), survey and set-out, 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

Confirm requirements for constructing and installing an earth retaining structure.

Performance criteria

- 1.1 Type of earth retaining structure to be constructed and installed is confirmed in accordance with contract specifications.
- 1.2 Site and site conditions are confirmed in accordance with company requirements.
- Range location, drainage, environmental conditions, hazards
- 1.3 Resources are confirmed in accordance with company requirements.
- Range materials, plant and equipment, work force.

Outcome 2

Construct and install an earth retaining structure.

Performance criteria

- 2.1 Site is set up in accordance with company requirements and contract specifications.
- 2.2 Earth retaining structure is constructed and installed in accordance with company requirements and contract specifications.
- 2.3 Drainage systems are installed in accordance with company requirements and contract specifications.
- 2.4 Backfilling is placed and compacted in accordance with company requirements, contract specifications and local authority regulations.
- 2.5 As-built plans are completed in accordance with company requirements and contract specifications.

Outcome 3

Clear the worksite on completion of work.

Performance criteria

3.1 Site is cleared on completion of work in accordance with company requirements.

Range materials, traffic management, plant and equipment, any other temporary structures.

Replacement information	This unit standard was replaced by unit standard 31481.
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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	21 May 2015	31 December 2021
Review	2	27 September 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>.