

Title	Install earth retaining structures for road construction		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to prepare to install, and install, earth retaining structures for road construction.
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Classification	Infrastructure Works > Road Construction
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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;
Health and Safety in Employment Regulations 1995;
BS 6031:2009 *Code of practice for earthworks* and NZS 4404:2010 *Land development and subdivision*, available from <https://www.standards.govt.nz/>;
TNZ F/01 *Specification for Earthworks Construction*, available from <http://www.nzta.govt.nz/resources/>;
Territorial Authority guidelines for earthworks.
- 2 Assessment against this unit standard must take place in a workplace environment. 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 which may apply across the company or to 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.
Earth retaining structures refers to the construction and installation of earth retaining structures to change the topography of the land for the purpose of road construction, using methods such as cantilever wall, anchor wall, mechanically stabilised earth (MSE), gabion mesh, soil nailing, crib wall (concrete and timber), timber pole wall, or sea block.

Outcomes and performance criteria

Outcome 1

Prepare to install earth retaining structures for road construction.

Performance criteria

- 1.1 Type of earth retaining structure and method of installation are determined and confirmed in accordance with contract specifications and company requirements.
- 1.2 Location of structure and site conditions are confirmed in accordance with contract specifications and company requirements.
- 1.3 Materials, plant and equipment are selected in accordance with installation method and company requirements.
- 1.4 Site management and communication requirements are identified and confirmed as in place before commencement of work.

Range site safety plan, environmental plan, traffic management plan.

Outcome 2

Install earth retaining structures for road construction.

Performance criteria

- 2.1 Earth retaining structure is constructed and installed in accordance with contract specifications and company requirements.
- 2.2 Drainage systems are installed in accordance with contract specifications and company requirements.
- 2.3 Backfilling is placed and compacted in accordance with contract specifications and company requirements.

Replacement information	This unit standard replaced unit standard 28948.
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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	27 September 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.