

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.
----------------	--

Classification	Infrastructure Works > Road Construction
-----------------------	--

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with relevant legislative and industry requirements.
- 2 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*;
 - NZS 4404:2010 *Land development and subdivision*;
 - TNZ F/01: *Specification for Earthworks Construction*;
 - *Territorial Authority guidelines for earthworks*;
 and all subsequent amendments and replacements.
- 3 **Definitions**
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 baskets, soil nailing, crib wall (concrete and timber), timber pole wall, or sea block.
Industry requirements refer to relevant policies, processes, methodologies, industry codes of practice, site specific health and safety plans, standard operating procedures, site safety plans, quality plans, work plans, traffic management plans, contract work programmes, job safety analysis, safe work method statements, job instructions, manufacturer's requirements, contract specifications, manuals, procedural documents. Waka Kotahi New Zealand Transport Agency specifications and guidelines.

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.
- 1.2 Location of structure and site conditions are confirmed.
- Range hold points, engineer specifications, contract specifications.
- 1.3 Materials, plant and equipment are selected in accordance with installation method.
- Range compaction, engineer specifications, anchor points.
- 1.4 Site management and communication requirements are identified and confirmed as in place before commencement of work.
- Range requirements include – 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.
- 2.2 Drainage systems are installed.
- 2.3 Backfilling is placed and compacted.

Replacement information	This unit standard replaced unit standard 28948.
Planned review date	31 December 2026

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 September 2018	31 December 2023
Review	2	30 September 2021	N/A

Consent and Moderation Requirements (CMR) reference

0101

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

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