Title	**Carry out cut and fill formation for infrastructure earthworks**		
Level	**4**	**Credits**	**12**

Purpose	People credited with this unit standard are able to prepare to carry out, and carry out, cut and fill formation for infrastructure earthworks.

Classification	Infrastructure Works > Infrastructure Civil Works

Available grade	Achieved

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.

Outcomes and performance criteria

Outcome 1

Prepare to carry out cut and fill formation for infrastructure earthworks.

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Performance criteria

1.1 Required fill level and method of excavation are determined and confirmed in accordance with contract specifications and company requirements.

1.2 Location of stockpiles and/or dumps and size of hauls are confirmed in accordance with contract specifications and company requirements.

1.3 Plant and equipment are selected in accordance with excavation 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

Carry out cut and fill formation for infrastructure earthworks.

Performance criteria

2.1 Access roads, haul roads and loading and unloading areas are prepared in accordance with contract specifications and company requirements.

2.2 Material is removed from cut face and slope is secured in accordance with contract specifications and company requirements.

2.3 Material is loaded, hauled, and unloaded at the fill site in accordance with contract specifications and company requirements.

2.4 Cut and fill formation is carried out to achieve required level in accordance with contract specifications and company requirements.

2.5 Compaction of fill is carried out to achieve the specified density in accordance with contract specifications and company requirements, including any required testing.

Planned review date	31 December 2027

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 September 2018	N/A
Rollover and Revision	2	29 January 2026	N/A

Consent and Moderation Requirements (CMR) reference	0120

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

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Comments on this unit standard

Please contact Energy and Infrastructure Industry Skills Board qualifications@energyinfra-skills.nz if you wish to suggest changes to the content of this unit standard.

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