

| | | | |
|--------------|----------------------------------------------------------------------------------|----------------|-----------|
| Title | Carry out subgrade formation and compaction for infrastructure earthworks | | |
| Level | 4 | Credits | 10 |

| | |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose | People credited with this unit standard are able to prepare to carry out, and carry out, subgrade formation and compaction for infrastructure earthworks. |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|-----------------------|---------------------------------------------------|
| Classification | Infrastructure Works > Infrastructure Civil Works |
|-----------------------|---------------------------------------------------|

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

Guidance Information

- 1 Legislation relevant to this unit standard includes:
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 subgrade formation for infrastructure earthworks.

Performance criteria

- 1.1 Subgrade level and method of excavation are determined and confirmed in accordance with contract specifications and company requirements.
- 1.2 Plant and equipment are selected in accordance with excavation method and company requirements.
- 1.3 Work site is checked and confirmed as suitable for work to commence.
- 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 subgrade formation and compaction for infrastructure earthworks.

Performance criteria

- 2.1 Subgrade is cleared of all debris, rocks, and obstructions, and is shaped and protected in accordance with contract specifications and company requirements.
- 2.2 Subgrade improvement is carried out to achieve required strength in accordance with contract specifications and company requirements.
- 2.3 Subgrade compaction is carried out to achieve the specified density in accordance with contract specifications and company requirements, including any required testing.
- 2.4 Final surface is shaped and confirmed as ready for next layer in accordance with contract specifications and company requirements.

| | |
|----------------------------|------------------|
| Planned review date | 31 December 2023 |
|----------------------------|------------------|

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 |
|------------------------------------------------------------|------|

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.