

<b>Title</b>	<b>Assess ground conditions for forestry earthworks</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare to assess ground conditions; and assess ground conditions, for forestry earthworks.
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<b>Classification</b>	Infrastructure Works > Forestry Earthworks
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	Unit 17769, <i>Demonstrate knowledge of general health, safety, and environmental requirements in forestry</i> ; and Unit 22994, <i>Demonstrate knowledge of factors that affect the performance of forestry workers</i> , or demonstrate equivalent knowledge and skills.
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### Guidance Information

- 1 Evidence presented for assessment against this unit standard must be for a forestry earthworks site.
- 2 Learning and assessment within this unit standard must be carried out in accordance with the following legislation, guidelines, and codes of practice, as relevant to their role, and any subsequent amendments:
  - Health and Safety at Work Act 2015;
  - Resource Management Act 1991;
  - Heritage New Zealand Pouhere Taonga Act 2014;
  - Forest Practice Guides (2020), available from <http://www.nzfoa.org.nz/>
  - *Field Description of Soil and Rock – Field Sheet*, NZGS Guideline (2005), available from <https://www.nzgs.org/>.
- 3 Definition
 

*Company requirements* include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements that may apply across the company or to a specific site. Requirements are documented in the company health and safety plans, traffic management plans, contract work programmes, quality assurance programmes, policies, and procedural documents.

## Outcomes and performance criteria

### Outcome 1

Prepare to assess ground conditions for forestry earthworks.

#### Performance criteria

- 1.1 The purpose of planning and assessment of ground conditions for forestry earthworks is described.
- Range may include but is not limited to – erosion potential, sediment discharge, slope stability.
- 1.2 Mapping and survey data for the forestry earthworks site is obtained and analysed.
- Range may include but is not limited to – topographical and engineering surveys.

### Outcome 2

Assess ground conditions for forestry earthworks.

#### Performance criteria

- 2.1 Stability of steep slopes is assessed to identify high-risk areas.
- 2.2 Hazardous landforms and features are identified.
- Range may include but is not limited to – depressions, hummocky surfaces, unstable trees, water seepage, wet ground.
- 2.3 Natural drainage patterns are identified to minimise the impact on water bodies.
- 2.4 Assessment findings are summarised using a method that identifies suitability of the site for forestry earthworks according to company requirements.

<b>Planned review date</b>	31 December 2028
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 September 2023	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0101
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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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) if you wish to suggest changes to the content of this unit standard.