

<b>Title</b>	<b>Install geotextiles in forestry infrastructure</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe the types and uses of geotextiles for forestry infrastructure; and install geotextiles in forestry infrastructure.
----------------	--

<b>Classification</b>	Infrastructure Works > Forestry Earthworks
-----------------------	--

<b>Available grade</b>	Achieved
------------------------	----------

<b>Prerequisites</b>	Candidates must hold a minimum of the class of licence required for the machine being operated to comply with the requirements of the Land Transport (Driver Licensing) Rule 1999.
----------------------	--

## Guidance Information

- Learning and assessment within this unit standard must be carried out in an infrastructure forestry earthworks environment and 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;
  - Resource Management (National Environmental Standards for Plantation Forestry) Regulations 2017 (Subpart 3 – Earthworks), available from <http://www.legislation.govt.nz/>;
  - Approved Code of Practice (ACOP) for Safety and Health in Forest Operations (2012), available from <https://www.worksafe.govt.nz/>;
  - Excavation Safety Good Practice Guidelines (2016), available from <https://www.worksafe.govt.nz/>;
  - Operator Safety Manual for Earthmoving Machinery 2017, available from <https://civilcontractors.co.nz/>;
  - Plantation Forestry Code of Practice Eliminating Alcohol and Other Drugs from the Workplace (2015), available from <https://nzfoa.org.nz/>;
  - New Zealand Forest Road Engineering Manual: Operators Guide 2020, available from <http://www.nzfoa.org.nz/>;
  - Forest Practice Guides (2020), available from <http://www.nzfoa.org.nz/>.

## 2 Definitions

*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's health and safety plans, traffic management plans, contract work programmes, quality assurance programmes, policies, and procedural documents. *Job prescriptions* are those given to the operator prior to undertaking a job. They may include site safety instructions, mapping information, contract drawings, and written memos.

*Manufacturer's instructions* may include specifications, installation, handling, use and maintenance instructions, and safety data sheets.

---

## Outcomes and performance criteria

### Outcome 1

Describe the types and uses of geotextiles for forestry infrastructure.

#### Performance criteria

1.1 The types of geotextiles and their uses in forestry infrastructure are described.

Range geosynthetics, geogrids, consolidation geotextiles, silt fences.

### Outcome 2

Install geotextiles in forestry infrastructure.

#### Performance criteria

2.1 Requirements of the job are clarified in accordance with job prescriptions and company requirements.

2.2 Suitable geotextiles are selected with consideration of site conditions.

Range site conditions include but are not limited to – pavement strength, sediment movement, site location, soil strength, soil type and drainage, subgrade strength.

2.3 Geotextiles for forestry infrastructure are installed in accordance with site conditions, company requirements, and manufacturer's instructions.

2.4 Machinery is operated safely in accordance with company requirements and manufacturer's instructions.

---

<b>Planned review date</b>	31 December 2028
----------------------------	------------------

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	28 September 2023	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 Waihangā 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.