

Title	Carry out preparation and apply pavement for a forestry road		
Level	3	Credits	15

Purpose	People credited with this unit standard are able to: describe the purpose and requirements of pavement placement for a forestry road; prepare to apply pavement for a forestry road; and apply pavement for a forestry road.
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Classification	Infrastructure Works > Forestry Earthworks
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Available grade	Achieved
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Prerequisites	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.
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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.

Industry best practice in this context refers to requirements specified in the Forest Practice Guides produced by the New Zealand Forest Owners Association.

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 purpose and requirements of pavement placement for a forestry road.

Performance criteria

1.1 The purpose of pavement placement for a forestry road is described.

Range axle weight distribution, running course, traction, traffic, weather conditions.

1.2 The requirements of pavement placement for a forestry road are described.

Range aggregate size and shape, angularity, depth, faces, penalties for poor construction, run of pit, strength.

Outcome 2

Prepare to apply pavement for a forestry road.

Performance criteria

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

2.2 Forestry road is prepared to receive pavement in accordance with job prescriptions and company requirements.

Range compaction of subgrade, geotextile application, grading, rolling, water control.

2.3 Suitability of aggregate for application to a forestry road is checked in accordance with job prescriptions and company requirements.

Range depth required, moisture content, particle size.

Outcome 3

Apply pavement for a forestry road.

Performance criteria

3.1 Pavement is applied for a forestry road in accordance with job prescriptions and company requirements.

Range binding, consolidation, place and lay, spreader box, spreading.

3.2 Quality control procedures are completed in accordance with company requirements.

Range includes but is not limited to the checking of – depth, particle size, width.

3.3 Pavement for a forestry road is compacted in accordance with industry best practice and company requirements.

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

Planned review date	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

Consent and Moderation Requirements (CMR) reference	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.