

<b>Title</b>	<b>Demonstrate knowledge of environmental requirements in forestry operations</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This standard is intended for people employed in a forestry operation.</p> <p>People credited with this unit standard are able to: describe environmental considerations for forestry; demonstrate knowledge of legislation that impacts on environmental management of commercial forestry; and describe the environmental requirements for a specific forestry operation in terms of the job prescription.</p>
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<b>Classification</b>	Forestry > Forest Operations
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<b>Available grade</b>	Achieved
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### Guidance Information

- Legislation relevant to this unit standard includes the Resource Management Act 1991; the Resource Management (National Environmental Standards for Plantation Forestry) Amendment Regulations 2018; and the Heritage New Zealand Pouhere Taonga Act 2014, and any subsequent amendments.
- References  
*Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations*, December 2012, available from <https://worksafe.govt.nz/>.  
New Zealand Forest Owners Association, *Forest Practice Guides* (2019), and any subsequent amendments, available from <https://www.nzfoa.org.nz> (NB – these guidelines support the NES-PF and have replaced the New Zealand Environmental Code of Practice for Plantation Forestry referenced in the unit, which is now out of date).
- Definitions  
*Accepted industry practice* – approved codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.  
*Forestry operations* include forest establishment, silviculture, harvesting, forest inventory, and forest and crew management.  
*Job prescription* refers to any written instructions for the operation and may include maps, harvest plans or cut plans.

*Worksite procedures* refer to documented procedures used by the organisation carrying out the work and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, site safety procedures, equipment operating procedures, quality assurance procedures, housekeeping standards, procedures to comply with legislative and local body requirements.

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## Outcomes and performance criteria

### Outcome 1

Describe environmental considerations for forestry.

#### Performance criteria

- 1.1 Natural and physical resources associated with commercial forestry are identified.
- 1.2 The positive environmental effects of plantation forestry are described.
  - Range clean water and air, wildlife habitat, land stability, recreation, flood mitigation, employment.
- 1.3 The potential adverse environmental effects of forestry operations are described.
  - Range may include but is not limited to – erosion, soil displacement, reduced water quality, reduced air quality, negative impacts on aquatic life, compaction, damage to historic sites, damage to neighbouring properties, damage to physical resources, public impressions, over spray, chemical spray, debris in the water table; evidence is required of three effects related to the operation the candidate is working in.

### Outcome 2

Demonstrate knowledge of legislation that impacts on environmental management of commercial forestry.

#### Performance criteria

- 2.1 The main purpose of the Resource Management Act is described.
- 2.2 Plantation forestry activities the candidate is undertaking, that are covered by NES-PF are identified.
  - Range three activities.
- 2.3 The main purpose of the Heritage New Zealand Pouhere Taonga Act 2014 is described.

- 2.4 Consequences of failing to meet the environmental requirements of the job prescription are explained.

Range re-work, fines, imprisonment, loss of contract.

### Outcome 3

Describe the environmental requirements for a specific forestry operation in terms of the job prescription.

Range one of the following operations – land preparation, forest harvesting, forest establishment and silviculture, forest roading.

### Performance criteria

- 3.1 The job prescription for the forest operation is described in terms of the environmental constraints on the operation.

Range three constraints related to the candidate's operation.

- 3.2 The environmental values that may be at risk from the forestry operation are identified.

- 3.3 The person who has overall responsibility for ensuring compliance with environmental legislation, and worksite procedures, at a worksite is identified.

- 3.4 Methods of communication to make workers aware of environmental requirements specific to their operation are explained.

Range methods of communication specific to the candidate's role and operation;  
may include but is not limited to – job prescription, harvest plan, verbal instructions, daily meetings.

- 3.5 The terms *environmental incident* and *environmental emergency* are explained in accordance with accepted industry practice and worksite procedures.

- 3.6 Reporting of an environmental incident or emergency is described in accordance with accepted industry practice or worksite procedures.

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<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	5 December 2000	31 December 2012
Review	2	22 May 2008	31 December 2012
Revision	3	16 July 2010	31 December 2016
Review	4	19 March 2015	31 December 2017
Review	5	10 December 2015	31 December 2024
Review	6	27 February 2020	N/A
Rollover	7	26 April 2024	N/A

**Consent and Moderation Requirements (CMR) reference**

0173

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

**Comments on this unit standard**

Please contact Muka Tangata - People, Food and Fibre Workforce Development Council [qualifications@mukatangata.nz](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.