

Title	Apply environmental management to mechanised land preparation operations		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: plan environmental management for mechanised land preparation operations; apply environmental management to mechanised land preparation operational practices; and monitor environmental effects of mechanised land preparation operations.
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Classification	Forestry > Forest Establishment
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes the: Health and Safety at Work (HSW) Act 2015, 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.
- 2 References
New Zealand Forest Owners Association, *Forest Practice Guides* (2019), and any subsequent amendments, available from <http://www.nzfoa.org.nz>.
Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations, December 2012, available from <http://www.worksafe.govt.nz>.
- 3 Definitions
Accepted industry practice refers to approved codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.
Forestry operations refer to all activities forming a part of the work carried out in a commercial forest including: 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.
Worksites 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.

- 4 Assessment information
This unit standard must be assessed on-job.

Outcomes and performance criteria

Outcome 1

Plan environmental management for mechanised land preparation operations.

Performance criteria

- 1.1 Job prescription and/or operational plan is checked, and environmental requirements identified in accordance with accepted industry practice.
- Range three of – local authority requirements, operational boundaries, historic sites, environmentally sensitive areas, riparian protection, environmental hazards.
- 1.2 Environmental risks and hazards are assessed, and job prescription or operational plan is modified to address impacts for a selected forestry operation in accordance with accepted industry practice and worksite procedures.
- Range three of – location of tracks, measures to control water run-off, environmentally sensitive areas, boundaries, adjacent properties.
- 1.3 An onsite work plan is prepared and documented in accordance with accepted industry practice and worksite procedures.
- 1.4 Environmental requirements are communicated to other workers before starting the operation in accordance with worksite procedures.
- Range at least two of – operational plan, job prescription, local authority requirements, environmentally sensitive areas, riparian protection and/or streamside management policies, sensitive sites, historic sites.
- 1.5 The process for checking situations outside the job prescription and/or environmental requirements with the employer or principal before work commences is explained in accordance with worksite procedures.

Outcome 2

Apply environmental management to mechanised land preparation operations.

Performance criteria

- 2.1 Type of machine is matched to the operation being undertaken in accordance with accepted industry practice.

- 2.2 Machine servicing is planned and carried out to meet environmental management requirements.
 - Range fuel and oil storage, disposal of empty containers, fuel dispensing, oil changes, machinery wash down.
- 2.3 Machine operation is managed to minimise environmental damage in accordance with accepted industry practice.
 - Range four of – erosion, sedimentation, streamside management, physical structures, adjacent properties, sensitive sites, job prescription requirements.
- 2.4 Erosion and sediment control is completed in accordance with accepted industry practice and worksite procedures.
- 2.5 Measures to avoid transportation of weeds and pests when moving machinery from site to site are explained in accordance with accepted industry practice and worksite procedures.

Outcome 3

Monitor environmental effects of mechanised land preparation operations.

Performance criteria

- 3.1 The operation is monitored throughout to check that environmental requirements are being met in accordance with accepted industry practice and worksite procedures.
- 3.2 Documentation is presented to verify monitoring in accordance with worksite procedures.

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	8 November 1996	31 December 2020
Revision	2	19 June 1998	31 December 2020
Review	3	5 December 2000	31 December 2020
Review	4	19 March 2010	31 December 2017
Review	5	10 December 2015	N/A
Review	6	28 May 2020	N/A
Rollover	7	26 April 2024	N/A

Consent and Moderation Requirements (CMR) reference	0173
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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 Muka Tangata - People, Food and Fibre Workforce Development Council qualifications@mukatangata.nz if you wish to suggest changes to the content of this unit standard.