

<b>Title</b>	<b>Plan and form an extraction track in a forestry operation</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	<p>This unit standard is intended for people operating earth moving machinery in a forestry operation.</p> <p>People credited with this unit standard are able to plan the location of an extraction track for forestry operations, and form an extraction track for forestry operations.</p>
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<b>Classification</b>	Forestry > Machine Operations - Forestry
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	<p>One of:</p> <p>Unit 6934, <i>Operate a skidder in a forestry situation</i>; or</p> <p>Unit 6935, <i>Operate an excavator based tracked machine in a forestry operation</i>; or</p> <p>Unit 6936, <i>Operate a tracked machine in a forestry situation</i>; or</p> <p>demonstrate equivalent knowledge and skills.</p>
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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.

*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.

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

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## Outcomes and performance criteria

### Outcome 1

Plan the location of an extraction track for forestry operations.

#### Performance criteria

- 1.1 Extraction track location is planned to meet environmental requirements, job prescription, and operational requirements.
- Range regional authority requirements, forest owner requirements, riparian protection areas.
- 1.2 Cut-offs, soak holes, and water-tables are planned as required to minimise channelling of water runoff, in accordance with the job prescription and accepted industry practice.
- 1.3 Machinery suitable for track formation is selected in accordance with accepted industry practice.
- Range type, size, power, stability, protective equipment.
- 1.4 The hazards and associated risks specific to track formation are identified and described and control methods are explained in accordance with accepted industry practice.
- Range includes but is not limited to – overhang, falling debris, subsidence, rolling stumps, rocks, unstable trees, soft ground conditions, undermining root plates, nearby forestry operations.
- 1.5 Factors to be considered when pushing over standing trees are explained in accordance with accepted industry practice.
- Range machine type and size, technique and machine placement, minimising stem damage, two tree length rule.
- 1.6 Obstructions on the site which require removal are explained in accordance with accepted industry practice.
- Range stumps, rock outcrops, fallen trees.

**Outcome 2**

Form an extraction track for forestry operations.

**Performance criteria**

2.1 Obstructions are removed with minimal stress and damage to machine in accordance with accepted industry practice.

Range shock loading, hydraulic overload, blade or bucket damage.

2.2 Obstructions are managed to minimise hazards during future operations.

Range may include but is not limited to – stability, placement.

2.3 Extraction tracks are formed to meet operational and environmental requirements.

Range manageable gradients, stable formation, inward sloping, minimal visual impact, minimal soil disturbance, residual tree stability.

2.4 Hazards and associated risks are identified and controlled in accordance with accepted industry practice.

<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 2020
Review	2	22 May 2008	31 December 2017
Review	3	10 December 2015	N/A
Review	4	28 May 2020	N/A
Rollover	5	26 April 2024	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.