

<b>Title</b>	<b>Demonstrate knowledge of plantation forest harvesting</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This unit standard is intended for people employed in a forestry operation or people seeking to enter the forest industry.</p> <p>People credited with this unit standard are able to demonstrate knowledge of forest harvesting operations, and explain quality and value factors in logs.</p>
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<b>Classification</b>	Forestry > Forestry Knowledge
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation relevant to forest harvesting operations includes the Health and Safety at Work Act 2015 and the Resource Management Act 1991.
- 2 Definitions  
*Accepted industry practice* – approved codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.  
*Worksite policies* – 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.
- 3 The term ‘plantation forest’ is used to differentiate from native forest harvesting.
- 4 All activities and performance criteria must meet the requirements of worksite policies and accepted industry practice.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of forest harvesting operations.

**Performance criteria**

- 1.1 Forest harvesting operations are explained.
- Range felling, de-limbing, extraction, log making, fleeting, loading, transportation.
- 1.2 Terminology used in forest harvesting operations is explained.
- Range tonnes per day, cubic metres, loads per day, stems per drag, cycle time.
- 1.3 Forest harvesting systems are identified and their suitability to differing terrain and environmental considerations are explained.
- Range ground based, cable, mechanised, aerial.
- 1.4 Tree felling methods used in forest harvesting operations are described.
- Range manual, mechanised.
- 1.5 De-limbing methods are described.
- Range manual, mechanised.
- 1.6 Landing operations are described.
- Range processing, log making, fleeting, sorting, stacking, loading.
- 1.7 Roles and duties of crew members are defined.
- Range tree feller, breaker out, machine operator, tree processor, log maker.
- 1.8 Legislation and standards relevant to forest harvesting operations are identified.
- Range environmental, health and safety, codes of practice.

**Outcome 2**

Explain quality and value factors in logs.

**Performance criteria**

- 2.1 Factors affecting log quality are explained.
- Range splitting, draw wood, breakage, machine damage, time since felling.
- 2.2 Factors affecting log value are explained.
- Range log characteristics, market requirements.

<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	28 January 1995	31 December 2014
Review	2	8 November 1996	31 December 2014
Revision	3	19 June 1998	31 December 2014
Review	4	5 December 2000	31 December 2014
Review	5	22 May 2008	31 December 2014
Review	6	18 April 2013	31 December 2017
Review	7	10 December 2015	N/A
Review	8	25 June 2020	N/A
Rollover	9	28 March 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.