

<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.