

<b>Title</b>	<b>Demonstrate knowledge of principles of commercial forestry</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.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of commercial forestry; identify and describe factors affecting the quality of a stand of plantation trees; demonstrate knowledge of the forest industry cycle and downstream processing of forestry products; explain job prescriptions for forestry operations; and demonstrate knowledge of quality in a forestry operation.</p>
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<b>Classification</b>	Forestry > Forest Foundation Skills
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 People seeking to enter the forest industry may elect to complete this unit standard through a training provider.
- 2 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.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of commercial forestry.

#### Performance criteria

- 1.1 Common forestry terms are defined in accordance with accepted industry practice.
 

Range	deciduous, evergreen, plantation, natural, exotic, indigenous, silviculture, harvesting, establishment, land preparation, mensuration, carbon planting.
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1.2 Māori practices, uses, and occupation of forests are identified, and impacts of these on commercial forest operations are described.

Range urupā/burial site, medicinal plants, food source habitats, wahi tapu/historic sites.

1.3 New Zealand plantation species are identified as hardwood or softwood and their main uses are described in terms of final products.

Range may include but is not limited to – radiata pine, Douglas fir, eucalyptus species, cypress species; evidence of three species is required.

1.4 Plantation species are described in terms of percentage of total national plantation area.

Range radiata pine, Douglas fir, eucalyptus, cypress; evidence of three species is required.

1.5 Plantation species are compared in terms of length of growing cycle.

Range radiata pine, Douglas fir, eucalyptus, cypress; evidence of three species is required.

## Outcome 2

Identify and describe factors affecting the quality of a stand of plantation trees.

### Performance criteria

2.1 Factors affecting the quality of the stand are identified and described in accordance with accepted industry practice.

Range planting methods, releasing, pruning, thinning.

## Outcome 3

Demonstrate knowledge of the forest industry cycle and downstream processing of forestry products.

### Performance criteria

3.1 The forest industry cycle is described in accordance with accepted industry practice.

Range land preparation, planting, releasing, pruning, thinning, harvesting, mensuration, processing.

3.2 Common markets and processing operations are identified for different log types in accordance with accepted industry practice.

Range log types include – pruned, unpruned;  
 common markets include – export, domestic;  
 common processing operations include – pulp, veneer, solid wood, post and pole.

**Outcome 4**

Explain job prescriptions for forestry operations.

**Performance criteria**

4.1 The purpose and content of job prescriptions for forestry operations are explained in accordance with accepted industry practice.

**Outcome 5**

Demonstrate knowledge of quality in a forestry operation.

**Performance criteria**

5.1 Poor performance in a forestry operation is described in terms of probable consequences.

Range consequences for the employer, consequences for the employee.

5.2 Quality control within a forestry operation is explained in accordance with accepted industry practice.

5.3 Results from quality control measures are described in terms of the possible consequences for the forestry operation.

Range general consequence of getting a good result, general consequence of getting a bad result.

<b>Planned review date</b>	31 December 2024
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	22 May 2008	31 December 2016
Review	2	19 March 2015	31 December 2017
Review	3	10 December 2015	N/A
Review	4	27 February 2020	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>.

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### Comments on this unit standard

Please contact Competenz [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.