

Title	Demonstrate and apply knowledge of selecting plantation trees		
Level	3	Credits	15

Purpose	People credited with this unit standard are able to: demonstrate knowledge of tree selection for commercial forestry operations; explain job prescription requirements for tree selection; and select plantation trees for a forest crop.
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Classification	Forestry > Forest Silvicultural Operations
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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; the Resource Management (National Environmental Standards for Plantation Forestry) Amendment Regulations 2018; and any subsequent amendments.
- 2 References
Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations, December 2012, available from <https://worksafe.govt.nz/>.
 New Zealand Forest Owners Association, *Forest Practice Guides* (2019), and any subsequent amendments, available from <https://www.nzfoa.org.nz>.
- 3 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 land preparation, planting, releasing, pruning and thinning to waste.
Job prescription refers to any written instructions for the operation and may include maps, harvest plans or cutting plans.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of tree selection for commercial forestry operations.

Performance criteria

- 1.1 Objectives of tree selection are described in accordance with accepted industry practice.

Range two objectives.

- 1.2 Forest operations where tree selection is an important process are identified in accordance with accepted industry practice.
- 1.3 Tree qualities and features are explained in accordance with accepted industry practice.
- Range dominant, co-dominant, sub dominant, suppressed, stem form, branching habit, health, malformation, wobble, kink, sweep, internode, whorl, butt swept, single leader, double leader, multiple leader, branch size.
- 1.4 Terms used in tree selection are explained in accordance with accepted industry practice.
- Range stocking, spacing, crop tree, final crop tree, stems per hectare (SPH), cull tree, canopy gap tree.
- 1.5 Potential outcomes for a forest are described in accordance with accepted industry practice.
- Range includes but is not limited to – pruned log, saw log, pulp, framing, fuel wood, coppice, regeneration.
- 1.6 Features which determine suitability of crop trees for specific outcomes are described in accordance with accepted industry practice.
- Range outcomes may include but are not limited to – saw log, pulp, framing, fuel wood, coppice, regeneration; evidence for three outcomes is required.
- 1.7 Effects of tree selection on a final forest crop are explained in terms of volume and value.
- 1.8 The effects of high and low stocking rates in a final crop are described in accordance with accepted industry practice.
- 1.9 Reasons for retaining trees that do not meet selection criteria are explained in accordance with accepted industry practice.

Outcome 2

Explain job prescription requirements for tree selection.

Performance criteria

- 2.1 Tree selection requirements from a job prescription are identified and explained.
- Range stocking, acceptable trees, unacceptable trees, spacing, crown condition, selection order.

- 2.2 The purpose of communicating the job prescription to all members of the crew is explained in accordance with accepted industry practice.

Outcome 3

Select plantation trees for a forest crop.

Performance criteria

- 3.1 Risks specific to tree selection operations are assessed and controlled in accordance with accepted industry practice.
- 3.2 Trees are selected in accordance with the job prescription.

Range may include but is not limited to – health, dominance, form, spacing, tree lean within tolerance, branching habit.

Replacement information	This unit standard replaced unit standard 6951 and unit standard 6952.
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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	23 April 2020	N/A
Rollover	2	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.