

Title	Mark logs to optimise value and assess the quality of own log making work		
Level	4	Credits	10

Purpose	<p>This unit standard is intended for people employed in a log making role in a forestry operation.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of health and safety requirements for log making work; prepare for log making work; grade, measure, and mark stems; and assess quality of own log making work.</p>
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Classification	Forestry > Forest Landing 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 refers to approved codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.
Cutting instructions refers to a list of log grades to be cut showing priorities, lengths, diameters, defects not allowed, etc. This is used by the log maker to optimise log value recovered from a stem.
PPE refers to personal protective equipment and may include but is not limited to high-visibility, protective clothing, gloves, face and eye protection, safety helmet, footwear, hearing protection, and safety devices.
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.
All activities and evidence must meet worksite procedures and accepted industry practice.
Written forest industry log specifications and cutting instructions will be used to establish requirements for specific jobs.
- 5 Recommended skills and knowledge for entry
Unit 1252, *Demonstrate knowledge of log making*, or demonstrate equivalent knowledge and skills.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of health and safety requirements for log making work.

Performance criteria

- 1.1 PPE is maintained and worn.
- 1.2 The hazards and associated risks specific to log making are identified and controlled.
- Range includes but is not limited to – movement of logs and machines, chainsaw use, ground conditions and debris, other work in the area, other workers, safe zones, ropes and strops.
- 1.3 The reason for on-going hazard and risk identification is explained.
- 1.4 Factors that may change hazards or introduce new hazards or risks are described.
- Range weather, change in landing layout, change in location.

Outcome 2

Prepare for log making work.

Performance criteria

- 2.1 Measuring equipment is calibrated and suitable for the intended task to meet manufacturer's requirements and job prescription.
- 2.2 Cutting instructions and log grade specifications are explained and verified as current.
- 2.3 Communication is maintained with all personnel.

Outcome 3

Grade, measure, and mark stems.

Performance criteria

- 3.1 Action to be taken when cutting instructions change is explained in terms of operational requirements.
- 3.2 Priority cuts are explained in relation to cutting instructions.
- 3.3 Negative attributes of logs are assessed before log grading.
- Range may include but is not limited to – draw wood, pulled wood, scarf face, rot, insect infestation, splits, slabbing, shatter, holes, sap stain, sloven.
- 3.4 Stems are assessed, graded, measured, and marked in accordance with the cutting instructions.
- Range log combinations, preferred lengths, priority cuts.
- 3.5 Preferred lengths for various grades are marked in accordance with the cutting instructions.
- 3.6 Fleet marks for the operation are identified and used.
- 3.7 Logs ends are marked in accordance with the cutting instructions.
- 3.8 Work rate is consistently maintained.

Outcome 4

Assess quality of own log making work.

Performance criteria

- 4.1 The benefits of performing quality control on a log making operation are described.
- 4.2 The quality of their own log making is checked against specifications.
- Range a minimum of five stems must be assessed.
- 4.3 Errors identified during self-assessment are remedied where possible and methods to minimise errors in the future are explained.

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	28 January 1995	31 December 2012
Review	2	8 November 1996	31 December 2012
Revision	3	19 June 1998	31 December 2012
Review	4	5 December 2000	31 December 2012
Review	5	22 May 2008	31 December 2013
Revision	6	15 September 2011	31 December 2016
Review	7	19 March 2015	N/A
Review	8	25 June 2020	N/A
Rollover	9	26 April 2024	N/A

Consent and Moderation Requirements (CMR) reference

0173

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.