

Title	Demonstrate knowledge of log making		
Level	3	Credits	5

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: factors which affect the quality of logs; cutting instructions; and log making measurement.</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, Resource Management Act 1991; the Resource Management (National Environmental Standards for Plantation Forestry) Amendment Regulations 2018; and the Heritage New Zealand Pouhere Taonga Act 2014, and any subsequent amendments.
- 2 References
New Zealand Forest Owners Association, *Forest Practice Guides* (2019), and any subsequent amendments, available from <http://www.nzfoa.org.nz>.
Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations, December 2012, available from <http://www.worksafe.govt.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 instruction 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.
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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of factors which affect the quality of logs.

Performance criteria

- 1.1 Log attributes are identified.
- 1.2 The grade requirements and relative values of three log types are described in accordance with the cutting instruction.
- Range evidence of one log grade from each log type is required.
- 1.3 Correct branch trimming on logs is described.
- Range flush, avoiding stem damage.

Outcome 2

Demonstrate knowledge of cutting instructions.

Performance criteria

- 2.1 The purpose of cutting instructions is explained.
- 2.2 Components of a specific cut plan are described in terms of the impact on the log making operation.
- 2.3 The need for logs to meet specifications is described in terms of optimising value and market requirements.
- 2.4 The importance of responding to cutting instruction alterations is explained.
- 2.5 The importance of accurate marking and cutting is described.
- Range customer requirements, waste, cost, log value.

Outcome 3

Demonstrate knowledge of log making measurement.

Performance criteria

- 3.1 Methods of measuring log attributes are demonstrated.
- Range length, knot size, sweep, wobble, kink.

3.2 Methods of measuring diameters are demonstrated.

Range large end diameter (LED), small end diameter (SED).

3.3 Industry methods of marking cutting lengths using spray paint are demonstrated.

3.4 The method to calibrate the logger's tape is described.

3.5 Causes of inaccurate measurement are explained.

Range equipment maintenance, equipment use.

Planned review date	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	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 2016
Review	6	19 March 2015	31 December 2016
Revision	7	18 February 2016	N/A
Review	8	25 June 2020	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 Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.