

Title	Scale logs using a domestic scaling method		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: describe log scaling methods and procedures used for domestic scaling; demonstrate knowledge of domestic log grades; and scale logs for the domestic market.
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Classification	Forestry > Forest Mensuration
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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 The reference text for this unit is: *Practical Log Scaling Guide*, Ellis, J. C. and Crawley, D. available at C3, PO Box 12501, Tauranga or info@scaling.co.nz.
- 4 Definitions
Accepted industry practice refers to approved codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.
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.
- 5 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

Describe log scaling methods and procedures used for domestic scaling.

Performance criteria

- 1.1 Measurement methods are described in accordance with the reference text.
- Range 3D, 2D, mid girth, weigh scaling, piece count, truck count, sectional measurement methods.
- 1.2 Diameter, girth, and bark thickness measurement is described in accordance with operational requirements.
- 1.3 Scaling procedures for rule and tape placement and their interpretation are described, where log shape deviates in accordance with the reference text.
- Range out of round log end, the smallest log diameter.

Outcome 2

Demonstrate knowledge of domestic log grades.

Performance criteria

- 2.1 Features of domestic log grades are identified and explained in accordance with the reference text.
- Range knot size, sweep, small end diameter, large end diameter, length, wobble, kink, out of round, fluting, off centre pith, pruned logs, unpruned logs, damage.
- 2.2 Interpretation and features within one log grade specification are described in accordance with the reference text.

Outcome 3

Scale logs for the domestic market.

Performance criteria

- 3.1 The hazards and associated risks specific to log scaling are identified and controlled on-job.
- 3.2 Equipment is calibrated.
- 3.3 Sample loads to be scaled are identified using reference information from customer or employing company.

- 3.4 Data is checked for accuracy in accordance with customer or employing company requirements.
- 3.5 Errors in data that appear when checking information gathered or processed are identified and reported.
- 3.6 Scaled loads are marked on completion to requirements of customer or employing company.
- 3.7 Load docket is verified.
- 3.8 Production output is checked for quality in accordance with customer or employing company requirements.

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	8 November 1996	31 December 2020
Revision	2	19 June 1998	31 December 2020
Review	3	5 December 2000	31 December 2020
Review	4	22 May 2008	31 December 2020
Revision	5	16 July 2010	31 December 2017
Review	6	10 December 2015	N/A
Review	7	25 June 2020	N/A
Rollover	8	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.