

<b>Title</b>	<b>Scale logs using a domestic scaling method</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	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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<b>Classification</b>	Forestry > Forest Mensuration
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<b>Available grade</b>	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](mailto: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.

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## 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.

<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	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

<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>.

#### 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.