

Title	Demonstrate knowledge of log grades and log scaling methods		
Level	3	Credits	5

Purpose	<p>This unit standard is intended for people employed in a landing operation, log yard or carrying out mensuration and inventory work.</p> <p>People credited with this unit standard are able to: describe the principal methods used for scaling export and domestic logs; describe log scaling procedures; demonstrate knowledge of export and domestic log grades; and demonstrate knowledge of features of log scaling and log volume calculation.</p>
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Classification	Forestry > Forest Mensuration
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Available grade	Achieved
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Guidance Information

Definition

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.

Outcomes and performance criteria

Outcome 1

Describe the principal methods used for scaling export and domestic logs.

Performance criteria

- 1.1 Japanese Agricultural Standard (JAS), three dimensional (3D) and weigh scaling measurement methods are described.
- 1.2 Diameter, length, and weight measurements of logs are described in accordance with worksite procedures.

Outcome 2

Describe log scaling procedures.

Performance criteria

- 2.1 How diameters are rounded and how end conditions are allowed for are described in accordance with worksite procedures.

Range JAS, 3D.

- 2.2 Procedures for rule, tape, and calliper placement are described in accordance with worksite procedures.
- 2.3 The process for capturing loader and weighbridge weight data is described in accordance with worksite procedures.

Outcome 3

Demonstrate knowledge of export and domestic log grades.

Performance criteria

- 3.1 Log characteristics that determine domestic and export log grades are identified and described in accordance with worksite procedures.
- 3.2 One log grade is explained in terms of its specifications.

Outcome 4

Demonstrate knowledge of features of log scaling and log volume calculation.

Performance criteria

- 4.1 Calibration of log scaling measurement equipment is described in accordance with worksite procedures.
- Range tapes, rules, callipers, weighing devices.
- 4.2 Checks for accuracy of log scaling data using scaling equipment and recording methods are described in accordance with worksite procedures.
- 4.3 The requirement for weight to volume conversion factors is explained.
- 4.4 Derivation of weight to volume conversion factors is explained.
- 4.5 Planning of sample loads for weigh scaling is described in accordance with worksite procedures.

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	5 December 2000	31 December 2017
Review	2	22 May 2008	31 December 2017
Review	3	17 July 2009	31 December 2017
Review	4	10 December 2015	N/A
Review	5	28 May 2020	N/A
Rollover	6	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.