

Title	Monitor performance of a machine stress grader		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to monitor performance of a machine stress grader (MSG).
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Classification	Solid Wood Manufacturing > Timber Grading
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Available grade	Achieved
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Guidance Information

- 1 Legislation and references
 Health and Safety at Work Act 2015.
 Resource Management Act 1991.
 The following references are available at Standards New Zealand
<https://shop.standards.govt.nz/search/ed>:
 AS/NZS 1748.1:2011 *Timber - Solid - Stress-graded for structural purposes - General requirements*;
 AS/NZS 1748.2:2011 *Timber - Solid - Stress-graded for structural purposes - Qualification of grading method*;
 AS/NZS 4490:2011 *Timber - Solid - Stress-graded for structural purposes - Verification of properties*;
 AS/NZS 4063.1:2010 *Characterization of structural timber - Test methods*;
 AS/NZS 4063.2:2010 *Characterization of structural timber - Determination of characteristic values*;
 NZS 3622: 2004 *Verification of timber properties*.

- 2 Definitions
Accepted industry practice – approved codes of practice and standardised procedures accepted by the wider solid wood manufacturing industry as examples of best practice.
Workplace procedures refer to documented policies and procedures set by the organisation carrying out the work, and to documented or other directions provided to staff, and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, site specific procedures, site safety procedures, equipment operating procedures, quality assurance procedures, product quality specifications, references, approved codes of practice, housekeeping standards, environmental considerations, on-site briefings, supervisor’s instructions, and procedures to comply with legislative and local body requirements relevant to the industry sector.

- 3 Assessment information
 All activities and evidence must meet workplace procedures and accepted industry practice.

- 4 Recommended unit standards for entry:
Unit 20754, *Demonstrate knowledge of mechanical stress grading of timber*;
Unit 28116, *Operate a machine stress grader*.

Outcomes and performance criteria

Outcome 1

Monitor performance of a machine stress grader (MSG).

Performance criteria

- 1.1 Operating faults are identified, and corrective action is taken.
- Range operating faults may include but are not limited to –
incorrect machine settings – incorrect size parameters, transducer settings, air pressure settings;
machine faults may include but are not limited to – timber breakages, transducer breakages, moving out of adjustment and/or position, sticking solenoids, load arms not measuring properly.
- 1.2 Machine setup is carried out.
- 1.3 Verification checks are compared to MSG recordings for each batch or rolling sample, and the MSG is adjusted in line with verification outcomes.
- 1.4 Spraying and/or branding delivery systems are checked and replenished.
- 1.5 Test samples are taken for analysis to meet the requirements of NZS 3622:2004, and AS/NZS 4490:2011.
- 1.6 Records are analysed and stored.

Replacement information	This unit standard and unit standard 28116 replaced unit standard 141.
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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	20 March 2014	N/A
Review	2	23 April 2020	N/A

Consent and Moderation Requirements (CMR) reference	0013
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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.