

Title	Demonstrate knowledge of timber grading		
Level	2	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of: the fundamentals of timber grading; timber defects and their relationship to timber grades; grades and grading at own workplace; and size tolerances for timber grades.
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Classification	Wood Manufacturing - Generic Skills > Wood Manufacturing Foundation Skills
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Available grade	Achieved
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Guidance Information

1 Definitions

Accepted industry practice refers to approved codes of practice and standardised procedures accepted by the wider 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.

2 Assessment information

All activities and evidence must meet workplace procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the fundamentals of timber grading.

Performance criteria

- 1.1 Categories of timber are explained in terms of their end use and most important property.
- Range categories of timber - structural, appearance, cuttings, box.
- 1.2 The importance of accurate grading is explained.
- 1.3 Mechanical stress grading in the timber industry is described.

Outcome 2

Demonstrate knowledge of timber defects and their relationship to timber grades.

Performance criteria

- 2.1 Defects are identified from supplied samples and their causes explained.
- Range defects – knots, pith, wane, sap stain, cup, crook, bow, twist, skip.
- 2.2 The potential impacts of defects on timber are identified.
- Range defects – knots, pith, wane, sap stain, cup, crook, bow, twist, skip.
- 2.3 Processing defects are identified from supplied samples and the cause of each defect is explained.
- Range evidence of two types of processing defects is required.
- 2.4 Biological defects are identified from supplied samples and the cause of each defect is explained.
- Range any two of – mould, insects, decay.

Outcome 3

Demonstrate knowledge of grades and grading at own workplace.

Performance criteria

- 3.1 Timber grades present at the worksite are identified and explained in terms of suitable end use.
- Range evidence of three timber grades.
- 3.2 Defects allowable in the worksite are explained for grades of timber.
- Range evidence of four allowable defects for two grades of timber.

3.3 Grade marks used at the worksite are identified and matched to grades.

Range evidence of three grade marks.

Outcome 4

Demonstrate knowledge of size tolerances for timber grades.

Performance criteria

4.1 Tolerances for two timber sizes are identified.

4.2 The reason for applying size tolerances to timber is explained.

4.3 Sizing variations are identified.

Range evidence is required of two sizing variations.

Replacement information	This unit standard replaced unit standard 9774.
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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	15 April 2011	31 December 2014
Revision	2	18 April 2013	N/A
Review	3	28 May 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.