

Title	Demonstrate knowledge of wood product quality		
Level	2	Credits	5

Purpose	People credited with this unit standard are able to demonstrate knowledge of: the impact of core-wood, outer-wood, and softwood defects on wood product quality; and quality control in wood product manufacturing.
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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 Legislation
Health and Safety at Work Act 2015.
Resource Management Act 1991.
- 2 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.
Corrective action refers to actions such as communication to management, communication to on-site technical support person, communication to off-site technical support person, cleaning, communication with maintenance staff, recalibration, or changes made to the operating system in accordance with worksite documentation.
Wood product manufacturing relates to wood panel and solid wood processing operations producing semi-finished and finished product from commodity raw materials.
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 wood manufacturing sector.
- 3 Assessment information
All activities and evidence must meet workplace procedures and accepted industry practice.

- 4 Recommended unit standard for entry: Unit 736, *Demonstrate knowledge of physical characteristics of wood.*
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Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the impact of core-wood, outer-wood, and softwood defects on wood product quality.

Performance criteria

1.1 Core-wood and outer-wood are identified from samples and their impact on wood product quality is explained.

1.2 Softwood defects are identified from samples and their causes and impact on wood product quality are explained.

Range defects may include but are not limited to – intergrown knots, partially intergrown knots, loose knots, tight encased knots, spike knots, combination or group knots, knot holes, pith, wane, spring or crook, bow, twist, cup, sapstain, resin pockets.

Outcome 2

Demonstrate knowledge of quality control in wood product manufacturing.

Performance criteria

2.1 Product quality requirements for each internal processing step are described.

2.2 Methods used to ensure quality requirements are met at each processing step are described.

Range methods may include but are not limited to – measuring equipment, check sheets, visual inspections, sampling; evidence of a minimum of two is required.

2.3 Manufacturing defects are identified from samples, and potential causes and corrective actions are explained.

Range manufacturing defects may include but are not limited – hit and miss, machine damage, splits, burn marks, blow outs, staple marks, colour mismatch, pin holes, delaminations, knife marks, snipes, single pitch marks; evidence of four manufacturing defects is required.

2.4 The purpose of maintaining document control for quality checks is explained.

2.5 Options for further processing or re-processing to reclaim or add value to the product are identified.

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	18 December 2006	31 December 2012
Review	2	25 January 2008	31 December 2012
Review	3	15 April 2011	N/A
Review	4	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.