

Title	Assess veneer defects and grade veneers for laminated veneer lumber and plywood manufacture		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the fundamentals of laminated veneer lumber (LVL) and plywood veneer grading; and assess veneer defects and grade veneers.
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Classification	Solid Wood Manufacturing > Laminated Veneer Lumber and Plywood Manufacturing
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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.
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 be in accordance with workplace procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the fundamentals of LVL and plywood veneer grading.

Performance criteria

- 1.1 Reasons for grading are explained.

Range may include but are not limited to – end use, uniformity, company, national and international standards.
- 1.2 Effect of grading on product value is explained.
- 1.3 Principles of set-up of automatic grading systems are explained.

Range veneer tester, grade scan, moisture segregation.
- 1.4 Hazards associated with veneer grading are identified, and the role of protective equipment and safety features used to manage these hazards is explained.

Range hazards may include but are not limited to – knocking arms, moving product, lifting, splinters; safety features may include but are not limited to – safety isolation procedures, lockouts, emergency stops, guards, personnel protective equipment including gloves.
- 1.5 The consequences of non-conformance with workplace procedures when grading veneers for laminated veneer lumber and plywood manufacture in terms of production, safety, and quality are described.

Outcome 2

Assess veneer defects and grade veneers.

Performance criteria

- 2.1 Defects are identified and assessed for their effect on the intended end use in accordance with product specifications.

Range defects may include but are not limited to – live knot size, dead knots, partially encased knots, needle fleck, holes, voids, splits, cracks, sap stain, resin pockets, resin streaks, wane including bark, wet veneer, over-cooked veneer, mechanical damage.
- 2.2 Process defects are reported to the processing point.
- 2.3 Grade specifications are maintained.
- 2.4 Grade labelling is applied.

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	25 January 1995	31 December 2012
Review	2	24 November 1995	31 December 2012
Revision	3	12 February 1998	31 December 2012
Review	4	25 March 1999	31 December 2012
Review	5	29 March 2005	31 December 2012
Review	6	24 August 2006	31 December 2013
Review	7	19 April 2012	N/A
Review	8	22 October 2020	N/A

Consent and Moderation Requirements (CMR) reference

0013

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.