

Title	Analyse a manufacturing process and troubleshoot a quality problem in LVL and plywood panel manufacture		
Level	5	Credits	30

Purpose	People credited with this unit standard are able to: analyse a laminated veneer lumber (LVL) and plywood panel manufacturing process and recommend corrective actions to optimize the operation; and troubleshoot an LVL and plywood panel quality problem.
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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.
- 4 Recommended unit standard for entry: Unit 700, *Grade wood panels visually*.

Outcomes and performance criteria

Outcome 1

Analyse an LVL and plywood panel manufacturing process and recommend corrective actions to optimize the operation.

Performance criteria

- 1.1 Standard operating procedure is analysed to identify parts of the process that are not controlled at standard conditions and the reasons for the deviation.
- 1.2 Veneer is analysed to identify potential problems to the manufacturing process, and corrective actions are recommended for approval by management.
- 1.3 Equipment condition is analysed to identify potential problems to the manufacturing process, and corrective actions are recommended for approval by stakeholders.
- 1.4 In-process product variations are analysed to identify potential problems to the manufacturing process, and corrective actions are recommended for approval by management.

Outcome 2

Troubleshoot an LVL and plywood panel quality problem.

Performance criteria

- 2.1 Equipment failures at process stages are identified and their relationship to panel quality problems is investigated.
- 2.2 Bottlenecks in the panel manufacturing process that may relate to the panel quality problem are identified and investigated.
- 2.3 The potential for panel quality improvement is identified from the investigation.
- 2.4 Potential solutions that lead to panel quality improvement are identified and justified using problem-solving techniques.
- 2.5 Recommendations are made on the actions required to confirm the analysis and implement the best solution to the identified quality problem.

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	29 March 2005	31 December 2012
Rollover and Revision	2	23 February 2007	31 December 2013
Review	3	19 April 2012	N/A
Review	4	22 October 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.