

<b>Title</b>	<b>Lay up veneer for laminated veneer lumber and plywood manufacture</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of the fundamentals of lay up for laminated veneer lumber (LVL) and plywood manufacture and associated hazards; lay-up veneer for LVL and plywood manufacture; and monitor and control the performance of the lay-up section and complete records.
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<b>Classification</b>	Solid Wood Manufacturing > Laminated Veneer Lumber and Plywood Manufacturing
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<b>Available grade</b>	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.  
*Preventative maintenance* refers to the care and servicing of equipment and machinery. This may include periodic checks and inspections, testing, measurements, adjustments, or parts replacement as required in accordance with worksite policies and procedures for the purpose of preventing faults or failures and to maintain production requirements.  
*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
  - a All activities and evidence must be in accordance with workplace procedures and accepted industry practice.

- b This unit standard is not relevant to people in the Particle Board or Medium Density Fibreboard sector for whom the relevant unit standard is Unit 696, *Form wood furnish for pressing into wood panels.*

## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of the fundamentals of lay-up for LVL and plywood manufacture and associated hazards.

#### Performance criteria

- 1.1 The principles of lay up of veneers are explained.
- 1.2 The operating parameters and capability of lay-up systems are described.
- 1.3 The method of achieving the stiffness of the formed product is explained.
- 1.4 Hazards associated with veneer lay-up are identified, and the role of protective equipment and safety features is explained.
- Range hazards may include but are not limited to – moving equipment, dust, compressed air, radiation;  
safety features may include but are not limited to – personal protective equipment, safety isolation procedures, lockouts, emergency stops, guards, spark detection.
- 1.5 The consequences of non-conformance with workplace procedures when laying up veneer for laminated veneer lumber and plywood manufacture in terms of production, safety, and quality are described.

### Outcome 2

Lay up veneer for LVL and plywood manufacture.

#### Performance criteria

- 2.1 Veneers are laid up.
- 2.2 Lay-up equipment is set up, started, operated, and shut down.
- 2.3 Operating faults and malfunctions are identified, and corrective action is taken.
- Range may include but is not limited to – uneven distribution, inadequate bond quality.
- 2.4 Equipment faults and malfunctions are identified, and corrective action is taken.
- Range equipment faults and malfunctions may include but are not limited to – electrical, mechanical, hydraulic, pneumatic, instrumentation.

2.5 Preventative maintenance and cleaning requirements are applied.

### Outcome 3

Monitor and control the performance of the lay-up section and complete records.

#### Performance criteria

3.1 Feedback information from controls and checks is monitored and interpreted, and control parameters are adjusted to maintain process requirements, plant performance, and product quality.

3.2 Reject material is detected and processed.

3.3 Output product is checked.

Range may include but is not limited to – thickness, density, volume, surface finish.

3.4 Production, maintenance, and quality records are completed.

<b>Planned review date</b>	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

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.