

<b>Title</b>	<b>Peel logs into veneers for laminated veneer lumber and plywood manufacture</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of the fundamentals of veneer lathes; operate and maintain a veneer lathe to peel logs for laminated veneer lumber (LVL) and plywood manufacture; and monitor and control peeled veneer production.
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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.  
*Compose* means to dock and butt join veneers for LVL and plywood production.  
*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  
All activities and evidence must be in accordance with workplace procedures and accepted industry practice.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of the fundamentals of veneer lathes.

#### Performance criteria

- 1.1 The purpose of veneer lathes in the veneer formation process is described.
- 1.2 The purpose and function of the log centring device are explained.
- 1.3 The operating parameters and capability of veneer lathes are explained.
- Range may include but is not limited to – minimum and maximum dimensions of input material, knife and nose bar settings, feed speeds.
- 1.4 Operating components and process controls of veneer lathes are identified, and their purpose is explained.
- Range may include but is not limited to – knives, rotational mechanism, thickness control.
- 1.5 Hazards associated with veneer lathes are identified, and the role of protective equipment and safety features is explained.
- Range hazards may include but are not limited to – moving equipment, sharp knives, lifting, mobile plant; safety features may include but are not limited to – personal protective equipment, hold cards, lockouts, stop buttons, guards.
- 1.6 Knife defects are identified from samples.
- Range defects caused by worn knives, defects caused by damaged knives.
- 1.7 The consequences of non-conformance with workplace procedures when peeling logs for veneers in terms of production, safety, and quality are described.

### Outcome 2

Operate and maintain a veneer lathe to peel logs for LVL and plywood manufacture.

#### Performance criteria

- 2.1 The veneer lathe is set up, started, operated, and shut down.
- 2.2 Knives are set and adjusted to achieve production requirements.

- 2.3 Operating faults and malfunctions are identified, and corrective action is taken.
- Range operating faults may include but are not limited to – blunt or damaged knives, overloading, thickness variation.
- 2.4 Equipment faults and malfunctions are identified, and corrective action is taken.
- Range equipment faults and malfunctions – electrical, mechanical, hydraulic, pneumatic, instrumentation.
- 2.5 Control information is entered into fitted control devices, and output data are recorded.
- 2.6 Preventative maintenance and cleaning requirements are explained and applied.
- 2.7 Materials are processed.
- Range materials may include but are not limited to – by-product, waste.

### Outcome 3

Monitor and control peeled veneer production.

#### Performance criteria

- 3.1 Feedback information from control and checks is monitored and interpreted, and control parameters are adjusted to maintain process requirements, plant performance, and product quality.
- 3.2 Output veneer is checked.
- Range thickness, width, surface quality.
- 3.3 Production rate is maintained.
- 3.4 Cores and spin-out are processed.
- 3.5 Production, maintenance, and quality records are completed.

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<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	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	26 June 2003	31 December 2012
Review	6	29 March 2005	31 December 2012
Rollover and Revision	7	23 February 2007	31 December 2013
Review	8	19 April 2012	N/A
Review	9	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](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.