

<b>Title</b>	<b>Sand wood products for wood product manufacturing</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of the fundamentals of a sanding machine in wood product manufacturing; prepare for wood product component sanding; operate and maintain a sanding machine to sand wood products in wood product manufacturing; and monitor and control the performance of a sanding machine.
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<b>Classification</b>	Solid Wood Manufacturing > Wood Product Manufacturing Skills
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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.  
*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 Range  
pre-paint, finish.
- 4 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 a sanding machine in wood product manufacturing.

#### Performance criteria

- 1.1 The purpose of a sanding machine in wood product manufacturing is described.
- 1.2 Operating principles of a sanding machine are described.
- 1.3 Operating parameters and capability of a sanding machine are explained.
- Range maximum and minimum sizes, feed speeds, grit size, belt type.
- 1.4 Operating components and process controls of a sanding machine are identified, and their purpose is explained.
- Range height control, pressure, feed rollers, feed speed control, tables.
- 1.5 Hazards associated with using a sanding machine are identified and actions to be taken to manage the hazards are described.
- Range hazards may include but are not limited to – moving equipment, noise;  
actions may include but are not limited to – safety isolation procedures, lock-outs, emergency stops, guards, dust extraction.
- 1.6 Consequences of non-conformance with workplace procedures when sanding wood products in terms of equipment damage, production loss, and personal safety are described.

### Outcome 2

Prepare for wood product component sanding.

#### Performance criteria

- 2.1 Job specifications are obtained and checked against the order requirements.
- 2.2 Materials that do not conform to the job specifications are identified and disposed of.

### Outcome 3

Operate and maintain a sanding machine to sand wood products in wood product manufacturing.

**Performance criteria**

- 3.1 Safe work practices associated with operating and maintaining a sanding machine are identified and applied.  
 Range practices may include but are not limited to – isolation procedures, lock-outs, emergency stops, machine guarding, the wearing of appropriate safety equipment.
- 3.2 Sanding machine is started, operated, and shut down.
- 3.3 Operating faults and malfunctions are reported.  
 Range operating faults and malfunctions – electrical, mechanical, hydraulic, pneumatic, instrumentation.
- 3.4 Preventative maintenance and cleaning schedule for sanding machine is carried out.

**Outcome 4**

Monitor and control the performance of a sanding machine.

**Performance criteria**

- 4.1 Feedback information from controls and checks is monitored and interpreted, and control parameters are adjusted to maintain process requirements, plant performance, and product quality.
- 4.2 Control information is entered into any fitted control device.
- 4.3 Production requirements are achieved by setting and adjusting machine tools and implements.  
 Range adjustments – pressure, feed speed, grit size; production requirements – product quality, volume, production rate, continuity of process.
- 4.4 Product quality, volume, and production rate are maintained.
- 4.5 Reject material is identified and dealt with.
- 4.6 Completed components are stacked and/or packaged in accordance with customer requirements.

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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	22 December 1999	31 December 2020
Revision	2	14 March 2000	31 December 2020
Revision	3	15 December 2000	31 December 2020
Revision	4	20 August 2002	31 December 2020
Review	5	18 December 2006	N/A
Review	6	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.