

<b>Title</b>	<b>Manage maintenance of technical plant and related pressure and electronic systems in wood manufacturing</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>30</b>

<b>Purpose</b>	People credited with this unit standard are able to manage: maintenance of technical plant in wood manufacturing; reactive maintenance of technical plant; maintenance of related pressure systems; and maintenance of related electronic control systems. They are also able to record, report, and communicate with others after maintenance.
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<b>Classification</b>	Wood Manufacturing - Generic Skills > Wood Manufacturing Coordination
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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.

*Technical plant* refers to:

- in Timber Machining – production planers; planer moulders; cutter grinders; cutter setting equipment; and related hydraulic, pneumatic, mechanical and electronic systems;
- in Sawmilling and Drymilling – band saw centre, circular saw centre, chippers and slabbers, scanning equipment, waste handling systems, stacking and sorting systems, grading stations, and related hydraulic, pneumatic, mechanical and electronic systems;
- in Saw Doctoring – saw sharpeners; band saw centre; circular saw centre; chippers and slabbers; and related hydraulic, pneumatic, mechanical and electronic systems; and
- in Finger Jointing to as many of the following components that are included on the candidate's plant – bed rails; joint profiler; finger length trim saws; scoring saws; glue applicator; shook transfer system; turn down; crowder; cut-off saw; press and anvils; automatic stacker; and related hydraulic, pneumatic, mechanical and electronic systems.

*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

Evidence of maintenance of one technical plant is required.

### 4 Assessment information

All activities and evidence must meet workplace procedures and accepted industry practice.

## Outcomes and performance criteria

### Outcome 1

Manage maintenance of technical plant in wood manufacturing.

#### Performance criteria

1.1 Requirements for maintenance are assessed and determined.

Range may include but is not limited to – manufacturer recommendations, product specifications.

1.2 Scheduled plant maintenance is coordinated and completed.

1.3 Plans for maintenance are determined, implemented, and managed.

1.4 Machinery components to be maintained and supporting data are identified.

Range may include but is not limited to – machine parts, specialised personnel, data sheets, specific tools.

1.5 The safe and correct alignment and calibration of technical plant is coordinated and managed.

Range plant alignment method – straight edge, string line, laser line; planer, or spindle, or sharpening stone datum positions axially and radially aligned and calibrated.

1.6 Feedback on maintenance performed is evaluated and utilised.

1.7 Activities of process operators are coordinated to achieve individual production targets.

Range may include but is not limited to – information, problem-solving, support, operational assistance.

1.8 Usage of consumable and technical plant parts is monitored and controlled.

## Outcome 2

Manage reactive maintenance of technical plant in wood manufacturing.

### Performance criteria

- 2.1 Safety hazards associated with technical plant are established and precautions are taken in accordance with manufacturer's specifications.
- 2.2 Actions taken in the event of plant breakdown to restore technical plant operations are coordinated.
- Range plant breakdown may include but is not limited to – disruptions to upstream and downstream product flow, upsets to auxiliary plant services flow, plant failures.
- 2.3 Damage is inspected and assessed.
- 2.4 Causes of damage and defects are determined.
- Range may include but is not limited to – upstream processing, breakage, wear and tear, incorrect setting, grinding/sharpening.
- 2.5 Method of repair and/or maintenance is determined and managed in accordance with manufacturer requirements.
- 2.6 Feedback on maintenance performed is evaluated and utilised.

## Outcome 3

Manage maintenance of related pressure systems.

### Performance criteria

- 3.1 Maintenance of related pneumatic pressure systems incorporated in the technical plant is managed in accordance with manufacturer requirements.
- Range may include but is not limited to – compressors, filters, regulators, lubricators, air-lines.
- 3.2 Maintenance of related hydraulic pressure systems incorporated in the technical plant is managed in accordance with manufacturer requirements.
- Range may include but is not limited to – applications, motors, cylinders.

## Outcome 4

Manage maintenance of related electronic control systems.

**Performance criteria**

4.1 Maintenance of related electronic control systems incorporated in the technical plant is managed.

Range may include but is not limited to – limit switches, drive systems, signal transmission, Programmable Logic Controllers, variable speed drives.

**Outcome 5**

Record, report, and communicate with others after maintenance.

**Performance criteria**

5.1 Maintenance records are updated, reported, and communicated with relevant personnel.

<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	27 December 2002	31 December 2012
Review	2	18 December 2006	31 December 2012
Revision	3	22 August 2008	31 December 2013
Review	4	21 June 2012	N/A
Review	5	28 May 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.