

<b>Title</b>	<b>Maintain a wood chipping machine</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 hazards and safe work practices associated with maintaining a wood chipping machine; clean and assess wood chipping machine components for wear and damage; repair and replace wood chipping machine components; align and adjust wood chipping machinery; and test operation of chipping machine.
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<b>Classification</b>	Solid Wood Manufacturing > Saw Doctoring
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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  
Wood chipping machine includes wood chippers, canters, hogs, and slabbers.
- 4 Assessment information
  - a All activities and evidence must be in accordance with workplace procedures and accepted industry practice.
  - b For people already employed in the industry, the workplace referred to is their employer's. For other people, the workplace must be a local worksite.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of hazards and safe work practices associated with maintaining a wood chipping machine.

#### Performance criteria

1.1 Hazards associated with maintaining a wood chipping machine are identified and actions to be taken to manage the hazard are described.

Range hazards may include but are not limited to – moving equipment, dust, sharp objects, mobile plant, noise.

1.2 Safe work practices associated with maintaining a wood chipping machine are identified and applied.

Range practices may include but are not limited to – isolation procedures, lock-outs, emergency stops, machine guarding, wearing of appropriate safety equipment.

### Outcome 2

Clean and assess wood chipping machine components for wear and damage.

Range may include but is not limited to drum or disc knives; counter knives; anvils if fitted; holders and clamps; slabber saw, turn over knives.

#### Performance criteria

2.1 Maintenance requirements are determined.

2.2 Maintenance equipment is checked for wear and is lubricated.

Range spanners, safety equipment, pneumatic tools.

2.3 Machine is fully isolated.

2.4 Machine and work areas are cleaned of all foreign matter that could affect maintenance operations.

Range loose material around chipper mouth, resin build-up.

2.5 Maintenance requirements are reported.

### Outcome 3

Repair and replace wood chipping machine components.

**Performance criteria**

- 3.1 Equipment used for repair and replacement is operated.
- 3.2 Components are repaired or replaced to manufacturer's specifications.

**Outcome 4**

Align and adjust wood chipping machinery.

**Performance criteria**

- 4.1 Alignment is checked against manufacturer's specifications.  
Range knives, anvils, in-feed and out-feed systems.
- 4.2 Alignment equipment is selected and used.
- 4.3 Adjustable components are aligned and adjusted to manufacturer's specifications.
- 4.4 Components are adjusted and aligned in a sequence that prevents re-adjustment during the process.
- 4.5 Components are lubricated to manufacturer's specifications.  
Range threads, nuts, bolts.
- 4.6 All safety components are replaced before operation of the machine commences.

**Outcome 5**

Test operation of chipping machine.

**Performance criteria**

- 5.1 Chipping machine is started, operated, and shut down.
- 5.2 Output chips is checked for conformance with job requirements.
- 5.3 Chipping machine operation is checked to ensure it meets safety requirements.
- 5.4 Any remedial actions to rectify faults are carried out.

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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	27 January 1994	31 December 2019
Review	2	24 October 1996	31 December 2019
Review	3	10 February 1999	31 December 2020
Review	4	18 December 2006	N/A
Review	5	24 September 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.