

Title	Operate log saw		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: explain the fundamentals of log sawing; prepare to operate a log saw; operate and maintain a log saw; monitor and control the performance of a log saw; and explain and apply preventative maintenance requirements specific to the log saw centre.
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Classification	Wood Handling and Distribution > Wood Preparation
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Available grade	Achieved
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Guidance Information

- 1 Recommended for entry: Unit 166, *Confirm log grades and scale logs*, or demonstrate equivalent knowledge and skills.
- 2 Definitions
Log saw refers to either a chain saw or circular saw.
Worksite documentation refers to instructions to staff on policy and procedures (including the application of legislation to worksite situations), which are formally documented, and are available for reference at the worksite. Examples are standard operating procedures, specifications, manuals, and manufacturer's information.
- 3 The following apply to the performance of all outcomes of this unit standard:
 - a All work practices must meet recognised codes of practice and documented worksite health and safety and environmental procedures (where these exceed the code) for personal, product and worksite health and safety, and must meet the obligations required under current legislation, including the Health and Safety in Employment Act 1992, the Resource Management Act 1991, and their subsequent amendments.
 - b All work practices must meet documented worksite operating procedures. This includes the recording (by electronic or non-electronic means) of activities, events, and decisions.
 - c All evidence of communications gathered in relation to this unit standard must be in accordance with worksite procedures for content, recipient, timing and method.

Outcomes and performance criteria

Outcome 1

Explain the fundamentals of log sawing.

Performance criteria

- 1.1 Log specifications by grade are described in accordance with worksite documentation.
- 1.2 Operating components and process controls of log saws are identified and their purpose is explained in accordance with worksite documentation.
- 1.3 Safety features for log sawing are identified and the roles of protective equipment and safety procedures are explained in accordance with worksite documentation.
- Range safety features may include but are not limited to – safety isolation procedures, lock-outs, emergency stops, guards.
- 1.4 Consequences of non-conformance with worksite standards are described in accordance with worksite documentation.
- 1.5 The role and responsibilities of the log saw operator are described in accordance with worksite documentation.

Outcome 2

Prepare to operate a log saw.

Performance criteria

- 2.1 Start-up checks are completed in accordance with worksite documentation.
- 2.2 Input log checks are completed to ensure logs meet specifications and production run expectations, in accordance with worksite documentation.
- 2.3 Checks ensure that other upstream and downstream processing stages are ready for production.
- 2.4 Setting and adjustment of saws and stoppers enables production requirements to be achieved in accordance with worksite documentation.
- Range production requirements – product quality, production rate.
- 2.5 Trial log is cut to check the process and output product is in accordance with worksite documentation.

Outcome 3

Operate and maintain a log saw.

Performance criteria

- 3.1 Hazards associated with operating and maintaining a log saw are identified and actions to be taken to isolate, minimise or eliminate the hazards are described in accordance with worksite documentation.
- Range hazards may include but are not limited to – moving equipment, dust, mobile plant, noise.
- 3.2 Safe work practices associated with operating and maintaining a log saw are used in accordance with worksite documentation and legislative requirements.
- Range practices may include but are not limited to – isolation procedures, lock-outs, emergency stops, machine guarding, wearing of appropriate safety equipment.
- 3.3 The log saw is set up, started up, operated, and shut down in accordance with worksite documentation.
- 3.4 Operating faults and malfunctions are identified, and corrective action is taken in accordance with worksite documentation.
- Range operating faults and malfunctions – electrical, mechanical, hydraulic, pneumatic, instrumentation.

Outcome 4

Monitor and control the performance of a log saw.

Performance criteria

- 4.1 Output logs meet company requirements for length and grade.
- 4.2 Production rate is maintained in accordance with worksite documentation.
- 4.3 Selection of next production stage for output log is carried out in accordance with worksite documentation.
- 4.4 Production and quality records are completed in accordance with worksite documentation.

Outcome 5

Explain and apply preventative maintenance requirements specific to the log saw centre.

Performance criteria

- 5.1 Preventative maintenance and cleaning schedule for the log saw is carried out in accordance with worksite documentation.
- 5.2 Saw changes are coordinated with other staff and log saw centre re-adjustments are made in accordance with worksite documentation.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 December 2006	18 December 2020
Review	2	28 May 2020	18 December 2020

Consent and Moderation Requirements (CMR) reference	0013
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.