

Title	Demonstrate knowledge of and operate a mechanical timber handling system		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the operation and operating principles of a mechanical timber handling system; prepare to operate a mechanical timber handling system; operate a mechanical timber handling system; and monitor a mechanical timber handling system.
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Classification	Wood Handling and Distribution > Timber Yarding
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Available grade	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 handling and distribution industry as examples of best practice.
Corrective action refers to actions such as communication to management, communication to on-site technical support person, communication to off-site technical support person, cleaning, communication with maintenance staff, recalibration, or changes made to the operating system in accordance with worksite documentation.
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 handling and distribution sector.
- 3 Assessment information
All activities and evidence must meet workplace procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the operation and operating principles of a mechanical timber handling system.

Performance criteria

- 1.1 Hazards associated with operating a mechanical timber handling system are identified and actions to be taken to manage the hazards are described.
- Range hazards may include but are not limited to – moving equipment, mobile plant, noise, loose clothing; evidence of four is required.
- 1.2 Safe work practices associated with operating a mechanical timber handling system are applied.
- Range practices may include but are not limited to – isolation procedures, lock-outs, emergency stops, machine guarding, wearing of appropriate safety equipment; evidence of five is required.
- 1.3 The role of the selected mechanical timber handling system in the process is described.
- 1.4 Roles and responsibilities of the mechanical timber handling system operator are described.
- 1.5 Operating parameters and capability of the mechanical timber handling system are identified.
- Range includes but is not limited to – minimum and maximum dimensions of input material.
- 1.6 Operating components of the mechanical timber handling system are explained.
- Range may include but is not limited to – process control and monitoring systems, in-feed and out-feed conveyor systems, lubrication systems, hydraulic systems.
- 1.7 Safety procedures for operating a mechanical timber handling system are explained.
- Range may include but is not limited to – preventing and clearing equipment blockages, preparing to rectify equipment breakdowns, replenishing materials or removing assembled packets and leaving equipment at the end of shift.

Outcome 2

Prepare to operate a mechanical timber handling system.

Performance criteria

- 2.1 Start-up checks are completed.
- 2.2 Input timber checks are completed to ensure timber meets specification and production run expectations.
- 2.3 Supplies of materials to sustain production requirements are prepared.
- 2.4 Checks are done to ensure that other upstream and downstream processing stages are ready for production.
- 2.5 Product schedules are interpreted, and limitations of the schedule based on size and grade, input material quality and machinery capabilities are described.

Outcome 3

Operate a mechanical timber handling system.

Performance criteria

- 3.1 Mechanical timber handling system is operated safely.

Range start, stop, shut down, safety, maintenance.
- 3.2 Supplies of material to operate the mechanical timber handling system are monitored and maintained.
- 3.3 The mechanical timber handling system is set and adjusted to achieve production requirements.

Range production requirements include – product quality and production rates.
- 3.4 Any equipment faults and malfunctions are identified, and corrective action is taken.

Range equipment faults and malfunctions may include but are not limited to – electrical, pneumatic, mechanical, hydraulic.

Outcome 4

Monitor a mechanical timber handling system.

Performance criteria

- 4.1 Problems associated with product quality are identified and corrective action is taken.
- Range mixed grade, incorrect length, mixed size.
- 4.2 Product documentation and production and maintenance reporting are completed.
- 4.3 Preventative maintenance and cleaning schedules for monitoring a timber handling system are carried out.

Planned review date	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	18 December 2006	31 December 2012
Rollover and Revision	2	15 April 2011	N/A
Review	3	28 May 2020	N/A

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>.

Comments on this unit standard

Please contact Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.