

<b>Title</b>	<b>Operate interlinked mechanical timber handling systems simultaneously</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of the operation and operating principles of interlinked mechanical timber handling systems; prepare to operate interlinked mechanical timber handling systems simultaneously; operate interlinked mechanical timber handling systems simultaneously; monitor interlinked mechanical timber handling systems.
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<b>Classification</b>	Wood Handling and Distribution > Timber Yarding
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation  
Health and Safety at Work Act 2015.  
Hazardous Substances and New Organisms Act 1996.  
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 person, communication to off-site technical support person, cleaning, communication with maintenance staff, recalibration, or changes made to the operating system in accordance with workplace procedures.  
*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  
Mechanical timber handling systems may include is not limited to – unscrambler, board turner, bin sorter, drop sorter, tilt hoist, lug loader, packet pressing and/or strapping;

evidence is required of a minimum of two mechanical timber handling systems.

- 4 Assessment information
- a All activities and evidence must meet workplace procedures and accepted industry practice.
  - b Candidates who have already gained credit for Unit 8005, *Stack timber in packets using a mechanical timber stacking system*, or Unit 20757, *Demonstrate knowledge of and operate a mechanical timber handling system* must operate different mechanical timber handling and stacking systems when presenting evidence for assessment against this unit standard.

## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of the operation and operating principles of interlinked mechanical timber handling systems.

#### Performance criteria

- 1.1 Hazards associated with operating interlinked mechanical timber handling systems simultaneously 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.
- 1.2 Safe work practices associated with operating interlinked mechanical timber handling systems are used.
- Range practices may include but are not limited to – isolation procedures, lock-outs, emergency stops, machine guarding, wearing of appropriate safety equipment.
- 1.3 Roles of the selected interlinked mechanical timber handling systems in the sawmill process are described.
- 1.4 Roles and responsibilities of the interlinked mechanical timber handling system operator are described.
- 1.5 Operating parameters and capability of the selected interlinked mechanical timber handling systems are identified.
- Range includes but is not limited to – minimum and maximum dimensions of input material.
- 1.6 Operating components of the selected interlinked mechanical timber handling systems are identified.
- 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 interlinked mechanical timber handling systems simultaneously 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 interlinked mechanical timber handling systems simultaneously.

### 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 Production schedules are interpreted, and limitations of the schedule based on size and grade, input material quality, and machinery capabilities are described.

## Outcome 3

Operate interlinked mechanical timber handling systems simultaneously.

### Performance criteria

- 3.1 Mechanical timber handling systems are operated safely.
- Range start, stop, shut down, safety, maintenance.
- 3.2 Supplies of material to operate the mechanical timber handling systems 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 Equipment faults and malfunctions are identified, and corrective action is taken.
- Range equipment faults may include but are not limited to – electrical, mechanical and hydraulic.

**Outcome 4**

Monitor interlinked mechanical timber handling systems.

**Performance criteria**

4.1 Problems associated with product quality are identified and corrective action is taken.

Range problems may include but are not limited to – mixed grade, incorrect length, mixed size, packet build.

4.2 Product documentation, production, and maintenance reporting are completed.

4.3 Preventative maintenance and cleaning schedule for monitoring interlinked mechanical timber handling systems is carried out.

<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	18 December 2006	31 December 2020
Rollover	2	15 April 2011	N/A
Review	3	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.