

Title	Stack timber in packets using a mechanical timber stacking system		
Level	2	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the operation and operating procedures of a mechanical timber stacking system; prepare to operate a mechanical timber stacking system; operate a mechanical timber stacking system; and stack timber in packets.
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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.
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 Range
Mechanical timber stacking systems may include – automatic stackers, destackers, filleters, defilleters;
evidence of one is required.
- 4 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 procedures of a mechanical timber stacking system.

Performance criteria

- 1.1 Hazards associated with operating a mechanical timber stacking 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 stacking system are applied.
- Range practices may include but are not limited to – isolation procedures, lock-outs, emergency stops, machine guarding, wearing appropriate safety equipment; evidence of five is required.
- 1.3 The role of the mechanical timber stacking system in the timber production process is described.
- 1.4 Roles and responsibilities of the stacker operator are described.
- 1.5 Operating parameters and capability of the mechanical timber stacking 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 stacking system are identified.
- Range may include but is not limited to – drives, loaders, chains, touch screen, control panels; evidence of five operating components is required.
- 1.7 Safety features of the mechanical timber stacking system are identified and their roles are explained.
- Range may include but is not limited to – isolation procedures, stop button, lock-out switch or system, guards, safety access ways, sensors

1.8 Safety procedures for operating a mechanical timber stacking system are explained.

Range may include but is not limited to – preventing and clearing 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 stacking 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 Fillets and any other items that could damage or degrade stacked timber are described and corrective measures needed to maintain product quality are described.

Range may include but is not limited to – variable thickness, species incompatibility, fillets infected with sapstain, decay or insect attack, split, broken or bent fillets, mechanical issues.

2.4 In-specification fillets are loaded into magazines.

2.5 Checks are done to ensure that other upstream and downstream processing stages are ready for production.

Outcome 3

Operate a mechanical timber stacking system.

Performance criteria

3.1 Mechanical stacker is operated safely.

Range start, stop, shut down, safety, maintenance.

3.2 Placement of fillets between each layer of timber is monitored.

3.3 Supplies of material into the mechanical timber stacking system are monitored and maintained.

Outcome 4

Stack timber in packets.

Performance criteria

4.1 Timber is packeted by timber dimension.

4.2 Instructions for packet formation are followed.

Range may include but is not limited to – number of boards per packet, requirements for fillets and bearers, long and short lengths, flush ends, wiring or strapping and corner protection, wrapping, branding, labelling.

4.3 Supplies of materials for the packaging operation are monitored and maintained.

4.4 Causes and effects of problems associated with incorrect packet build and stacking are described.

Range incorrect packet build may include but is not limited to – stability, fillet placement, dimensions, piece count, effect on future processes and transport; stacking – mixed grade, incorrect lengths, mixed size.

4.5 Product documentation and production reporting are identified.

4.6 Preventative maintenance and cleaning schedules are identified.

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	28 August 1996	31 December 2012
Review	2	10 February 1999	31 December 2012
Review	3	18 December 2006	31 December 2012
Rollover and Revision	4	15 April 2011	31 December 2015
Review	5	20 March 2014	N/A
Review	6	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.