

Title	High stack logs for port and shipping operations		
Level	4	Credits	6

Purpose	<p>This unit standard is for people who high stack logs to optimise storage space for port and shipping operations, using an excavator or a rubber tyred front end loader or a log stacker.</p> <p>People credited with this unit standard are able to: describe high stacking of logs for storage; prepare for the high stacking operation; and high stack logs.</p>
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Classification	Stevedoring and Ports Industry > Port Machinery Operations
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Available grade	Achieved
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Prerequisites	<p>Unit 18950, <i>Demonstrate knowledge of log handling for port and shipping operations</i>; and one of – Unit 6930, <i>Operate a forked loader in a forest or log yard</i>; Unit 12898, <i>Handle logs for further processing</i>; or Unit 18952, <i>Operate an excavator to handle logs in port and shipping operations</i>; or demonstrate equivalent knowledge and skills.</p>
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Guidance Information

- 1 Legislation and formal requirements relevant to this unit standard include: Health and Safety in Employment Act 1992; *Approved Code of Practice for Operator Protective Structures on Self-propelled Mobile Mechanical Plant*, available at <https://www.worksafe.govt.nz>.
- 2 Any new, amended or replacement Acts, regulations, Rules, standards, codes of practice, or Land Transport New Zealand requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 3 Definitions
 An *excavator* is a hydraulic excavator fitted with a bucket or a grapple and/or push plate.
 A *log stacker* is a large rubber tyred machine equipped with loading forks capable of lifting large loads.
Organisation can mean company or employer.
- 4 All actions carried out must be in accordance with legal, safety, organisational, and site requirements that are applicable to each situation.

Outcomes and performance criteria

Outcome 1

Describe high stacking of logs for storage.

Performance criteria

- 1.1 Description includes the reasons for high stacking logs.
Range storage space, access.
- 1.2 Description includes the use of bookends.
- 1.3 Description identifies machinery used for high stacking.
Range excavator, rubber tyred front end loader, log stacker.
- 1.4 Description includes safety features required on high stacking machines.
Range protective structures, seatbelt, hydraulic lockout, brakes.
- 1.5 Description includes reasons for organisational restrictions on the height of high stacking.
- 1.6 Description includes the purpose and technique for stacking behind bookends.

Outcome 2

Prepare for the high stacking operation.

Performance criteria

- 2.1 Preparation includes planning of the high stacking log operation.
Range planning includes but is not limited to – log length, log grade, stack position, volume to be stacked, equipment required, timing of operation.
- 2.2 Preparation includes placement and positioning of bearers and bookends as required for the operation, or a detailed explanation of this process if not used in the operation.
- 2.3 Preparation includes positioning of the high stacking machine.
- 2.4 Preparation includes checking and identifying the specifications of the logs to be stacked.
Range grade, length, diameters, species, marking, stack location.

Outcome 3

High stack logs.

Performance criteria

- 3.1 Bed logs are placed securely on bearers.
- 3.2 Placement of logs in stacks ensures ends are as flush as practicable, logs are level within organisation’s height restrictions, and rows are as straight as possible.
- 3.3 Ends of stacks next to bookends are safe and stable, or if bookends are not used, stacks are safe and stable.
- 3.4 Crossed up and/or rejected logs in existing stacks are identified and managed in accordance with productivity requirements.
- Range productivity requirements include – stability of the stack, time to dig down to the problem, time to move and place logs safely.
- 3.5 Communication is maintained as required for the operation.
- 3.6 Details of the high stacking operation are recorded.
- Range includes but is not limited to – time spent on the operation, problems within a stack, location of the stack.

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	24 January 2002	31 December 2022
Review	2	27 October 2006	31 December 2022
Rollover and Revision	3	17 September 2015	31 December 2022
Review	4	29 July 2021	31 December 2022

Consent and Moderation Requirements (CMR) reference	0145
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.