

Title	Demonstrate knowledge of log handling for port and shipping operations		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to describe log handling operations and hazards in port areas and on vessels, and precautions for working on board a vessel during log handling operations.
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Classification	Stevedoring and Ports Industry > Cargo Operations
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Available grade	Achieved
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Entry information	
Critical health and safety prerequisites	Open.

Explanatory notes

- 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
<http://www.business.govt.nz/worksafe/information-guidance/all-guidance-items/acop-operator-protective-structures-on-self-propelled-mobile-mechanical-plant>.
- 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 *forked loader* is a four wheeled rubber tyred articulated machine equipped with loading forks.
A *log stacker* is a large rubber tyred machine equipped with loading forks capable of lifting large loads.
- 4 All actions carried out must be in accordance with legal, safety, organisational, and site requirements that are applicable to each situation.

Outcomes and evidence requirements

Outcome 1

Describe log handling operations and hazards in port areas and on vessels.

Evidence requirements

- 1.1 Description explains the operations involved in the handling of logs in port areas and on vessels.
- Range seven of the following operations – log scaling, unloading trucks, unloading trains, loading cradles, stacking logs, debarking operations, quality control checks, transferring logs to marshalling area, stowage on vessels, discharging logs.
- 1.2 Description includes the role of machinery used for log handling in port areas and on vessels.
- Range machinery may include but is not limited to – forked loaders, log stackers, excavators, vessel's cranes, vessel's grapple, butting machines, shuttle trucks; five types of machinery are required.
- 1.3 Description explains hazards associated with log handling operations in port areas and on vessels.
- Range losing control of logs, log breakage during handling, exposure to toxic fumes, walking on slippery logs, loss of control of heave, machine instability, swinging wires, machine slipping on hatch lid, other machines in the work area, high noise levels, climbing or descending hatch ladders, unexpected machine movements, unexpected personnel movement.
- 1.4 Description includes the potential impact of log handling in port and surrounding areas.
- Range bark, resins, dust, mud, slurry, lights, noise.
- 1.5 Description explains protective equipment to be used by personnel for port operations.
- Range head protection, eye protection, hand protection, air filtering devices, high visibility clothing, reflectorised vests, safety footwear.
- 1.6 Description includes procedures for dealing with emergencies in port areas and on vessels.
- Range injury, fire, one other type of emergency.
- 1.7 Description explains terms associated with log handling operations in port areas.

Range may include but is not limited to – ROPS, COPS, FOPS, OPS, hydraulic lockout, critical safety device, bookends, bunk, berth, apron, heave, wires, cranston, boots, hold, hatch, hatch lid, hatch ladder, coaming, side deck, square (in the hold), the cranewell, wings, under-runs, under the gear, away from the gear, stanchion, stanchion ladder, port side, starboard side, sea side, wharf side, safety huddle, stow, coming in, halfway, bring it in, lifting lugs, sounding port, pilot access point, list, lot number, mark off, final lashing, hog lashing, standby, signals, communications loop, tank top, crane’s cradle, block tie down; twenty terms are required.

Outcome 2

Describe precautions for working on board a vessel during log handling operations.

Evidence requirements

2.1 Description includes the procedures to communicate with the stevedore foreperson.

Range steps in the procedure relate to – hatch designation, radio channel, stow plan, ventilation of the hold.

2.2 Description includes the three-point contact method of ascending and descending hatch ladders.

2.3 Description includes precautions to avoid hazards when moving around the vessel.

Range gangways, ladders, obstacles; and three other types of hazard.

2.4 Description includes precautions to take when walking over slippery logs on board the vessel.

Range precautions relate to – foot protection, log stability, slope.

2.5 Description includes radio communication procedures to ensure safety of personnel on board the vessel.

Planned review date	31 December 2020
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 January 2002	N/A
Review	2	27 October 2006	N/A
Rollover and Revision	3	17 September 2015	N/A

Consent and Moderation Requirements (CMR) reference

0145

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the SSB ssb@email.address if you wish to suggest changes to the content of this unit standard.