Title	Operate an excavator to stow cargo on board a vessel in a port environment		
Level	3	Credits	15

Purpose	People credited with this unit standard are able to prepare to operate, operate and shut down an excavator on board a vessel to stow cargo in a port environment.
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Classification	Stevedoring and Ports Industry > Cargo Operations	
Available grade	Achieved	

Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, company requirements and legislative requirements.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to – the current version of the Health and Safety at Work Act 2015; *Code of Practice for Health and Safety in Port Operations* available at <u>https://worksafe.govt.nz/;</u> and any subsequent amendments and replacements.
- 3 Definitions

Company requirements refer to instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.

Excavator refers to a hydraulic excavator fitted with a bucket or a grapple and/or push plate.

Service information may include – technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

Outcomes and performance criteria

Outcome 1

Prepare to operate an excavator to stow cargo on board a vessel in a port environment.

Performance criteria

1.1 Pre-operational check is carried out.

- 1.2 The operator's cab is entered using correct access method.
 - Range machine stationary, facing the machine, using steps and grab rails, three-point contact.
- 1.3 Start-up procedure is carried out.

Outcome 2

Operate an excavator on board a vessel to stow cargo in a port environment.

Performance criteria

- 2.1 Excavator is positioned correctly.
 - Range maintaining safe distance from hatch lid edges and stanchions, minimising steel-on-steel contact, facing heave as it is loaded, keeping in view of the crane operator, anticipating heave movement.
- 2.2 Excavator is operated in a hatch.
 - Range may include but is not limited to adjusting to limitations on traction, following stow plan, guiding heave into position before release, avoiding contact with vessel's structure, optimising space, filling under-runs, filling eyes and wings, using drop-stow pattern, levelling of stowed logs, pausing the operation when the excavator is unattended and climbing from one level to another, rectifying unplanned heave movements.
- 2.3 Excavator is operated on deck.
 - Range may include but is not limited to filling side decks first, ensuring a bed of logs is laid down on the hatch lid, keeping a heave between excavator and stanchions, bridging between hatches, stow is crowned, stowing short logs against stanchions, rectifying unplanned heave movements.
- 2.4 Safe travel of an excavator on board a vessel is carried out.
 - Range track orientation, underfoot conditions, wear and damage to undercarriage, machine stability, damage.
- 2.5 Boom and dipper arm function operations are carried out.
- 2.6 Safe control of the bucket or grapple and/or push plate function is carried out.
 - Range may include but is not limited to the bucket or the grapple and/or push plate height is kept constant, logs accumulated in a single movement, rotation controlled, avoiding unplanned contact with objects.

Outcome 3

Shut down an excavator.

Performance criteria

3.1	The excavator is	parked in r	preparation for	shutdown.

Range as level as practicable, cleared area, in parked position, hydraulic system isolated, clear of other operations.

- 3.2 Engine is idled down and switched off.
- 3.3 The operator's cab is exited using correct dismount method.
- 3.4 The excavator is secured.

Planned review date	31 December 2023

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	31 May 2018	N/A

Consent and Moderation Requirements (CMR) reference	0014	
This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.		

Comments on this unit standard

Please contact MITO New Zealand Incorporated <u>info@mito.org.nz</u> if you wish to suggest changes to the content of this unit standard.