

Title	Operate ship's gear		
Level	3	Credits	15

Purpose	People credited with this unit standard are able to: familiarise self with ship's gear; reposition gear for a straight lift; kill a load swing; inform personnel about a load; direct gear operations using hand signals or radio communication; and lift and lower loads.
----------------	--

Classification	Stevedoring and Ports Industry > Port Machinery Operations
-----------------------	--

Available grade	Achieved
------------------------	----------

Prerequisite	Unit 30072, <i>Demonstrate and apply knowledge of slinging regular loads safely</i> , or demonstrate equivalent knowledge and skills.
---------------------	---

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, and 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; Maritime Transport Act 1994, Health and Safety in Employment (Pressure Equipment, Cranes, and Passenger Ropeways) Regulations 1999, *Maritime Dangerous Goods (IMDG) Code*, published by the International Maritime Organisation; 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.
Damage or deficiencies noticed refers to damage that is clearly detectable and is significant enough, in terms of company policies and procedures, to report. Such damage and/or deficiencies may not necessarily have occurred during the current operation and/or be caused by the candidate.
Hazards refers to situations and conditions presenting actual or potential risk including but not limited to – risk of harm to persons and/or environment, risk of damage to property and/or process, and exposure to financial loss.

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.

- 4 This unit standard requires that personnel demonstrate competence in operating two types of ship's gear. Examples of ships gear may include – a ship's crane, swinging derrick, union purchase or gantry.

Outcomes and performance criteria

Outcome 1

Familiarise self with ship's gear.

Performance criteria

- 1.1 Any damage or deficiencies noticed with ship's gear are reported.
- 1.2 Identification of gear limitations including delays and speed are carried out.
- 1.3 Any delays in ship's gear performance are communicated clearly to prevent damage or harm.

Outcome 2

Reposition gear for a straight lift.

Performance criteria

- 2.1 Loads are positioned without damage and without harm to people.
- 2.2 All parties involved in the lift are made aware when a safe lift is able to be made.

Outcome 3

Kill a load swing.

Performance criteria

- 3.1 All load swings are killed in the quickest possible time to minimise damage or injury to personnel and vessel, gear, and property.
- 3.2 Uncontrollable loads are lowered back to pick-up point safely if it is possible to do so.

Range: pick-up points may include – wharf, deck, ship's hold, tops of containers.

Outcome 4

Inform personnel about a load.

Performance criteria

- 4.1 Hazards relevant to the load are explained to personnel in terms of potential harm and controls implemented.
- 4.2 Personnel are made aware of cargo type and its intended position prior to loading.
- 4.3 Communication is established with the supervisor or foreman and loading instructions are confirmed prior to loading.

Outcome 5

Direct gear operations using hand signals or radio communication.

Performance criteria

- 5.1 Hand signals or radio communications are agreed between all parties prior to the operation commencing.
- 5.2 All communication is clear and understood by personnel in all conditions, so that operations are conducted in a safe manner.

Outcome 6

Lift and lower loads.

Performance criteria

- 6.1 Cranes are left with loads detached ready for next use.
- 6.2 Loads are safely slung and are stable.
- 6.3 Loads are rotated into an available gap when required.
- 6.4 Loads are moved without causing damage to the port, other cargo or harm to personnel.
- 6.5 Loads remain safely attached during lifting, moving and lowering operations.
- 6.6 Operations do not commence until the go ahead for operations has been given by the person in charge of operation.

Planned review date	31 December 2022
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 November 1997	31 December 2003
Revision	2	23 April 1999	31 December 2003
Revision	3	20 October 1999	31 December 2003
Revision	4	10 April 2000	31 December 2003
Reinstatement	5	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 info@mito.org.nz if you wish to suggest changes to the content of this unit standard.