

Title	Operate, lift, and place loads with a platform crane on an offshore installation		
Level	4	Credits	5

Purpose	<p>This unit standard is for people working on an offshore installation in the energy and chemical industry.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of an offshore platform crane and associated equipment; describe and apply offshore installation procedures for platform crane operations; operate a platform crane on an offshore installation; put a platform crane into out-of-service condition on an offshore installation and return lifting and other equipment to storage; and carry out and record regular checks and servicing for a platform crane on an offshore installation.</p>
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Classification	Cranes > Crane Operation
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Available grade	Achieved
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Guidance Information

- 1 Legislation and the manual relevant to this unit standard includes but is not limited to:
 - Health and Safety at Work Act 2015;
 - Hazardous Substances and New Organisms Act 1996;
 - Resource Management Act 1991;
 - Crane Association of New Zealand (Inc), *Crane Safety Manual for Operators/Users*, (Lower Hutt: Crane Association, 2016), available at <http://www.cranes.org.nz>; and any subsequent amendments.
- 2 Definition

Organisational requirements – documented policies and procedures. These may include: equipment manufacturers' procedures, plant procedures, suppliers' instructions; site signage; codes of practice; company health and safety plans; on site briefings; and supervisor's instructions. This includes all regulatory and legislative obligations that apply to the plant.
- 3 For the purposes of assessment:
 - evidence for the practical components of this unit standard must be supplied from the workplace.
 - evidence for all outcomes must be presented in accordance with organisational requirements.
 - an offshore installation may be a facility, ship or vessel.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of an offshore platform crane and associated equipment.

Performance criteria

1.1 Identify and describe terminology used to describe the crane and equipment in accordance with the *Crane Safety Manual for Operators/Users*.

1.2 Describe critical components in terms of their function.

Range brakes, ropes, sheaves, limit warning devices, load indicators, slings, hooks, spreaders, baskets, electronic load indicator system, control panel and levers, hydraulic systems, emergency hoist lowering system, emergency stop buttons, braking systems, selection switches, anti-cavitation switches, changeover switches, deceleration valves, wire release mechanism, wire terminations, load diagrams, boom, chord members, boom section connectors, drums, shafts, gears, hoisting and slewing mechanisms.

1.3 Describe the control and operation of critical components in terms of their use.

Range luffing, slewing, hoisting, auxiliary hoisting.

Outcome 2

Describe and apply offshore installation procedures for platform crane operations.

Performance criteria

2.1 Describe the work site environment, layout, obstructions, hazards, and safe working practices.

Range access, field of vision, blind lifts, communication, travel route, nature of loads, safety requirements, sea conditions, helicopter operations, wind and weather platform status, crane limitations, deck loading.

2.2 Carry out equipment pre-operation checks and lifting safety checks.

Range annunciator checks, fault reporting, selection of lifting equipment, load attachment, load lifting, load traversing, load placement, load weight, hook weight communications.

Outcome 3

Operate a platform crane on an offshore installation.

Performance criteria

- 3.1 Place the crane in a position to lift and place loads safely.
- Range height, jib position, jib angle, radius, weather conditions, platform status.
- 3.2 Confirm personnel assisting with the lift as being in their respective positions ready to conduct their tasks.
- Range riggers, slingers, dogmen, helicopter loading officer, platform supervisor.
- 3.3 Put the crane into service.
- Range motors, electronic load indicator system setup, control requirements for the lift, motion, speeds, pre-lift checks.
- 3.4 Confirm the load as correct and place safely and accurately.
- Range hand signals, verbal, radio.
- 3.5 Complete lifting documentation.
- Range logs, record, job sheets, crane equipment inventories, maintenance requests, load charts, electronic load indicator system.

Outcome 4

Put a platform crane into out-of-service condition on an offshore installation and return lifting and other equipment to storage.

Performance criteria

- 4.1 Put the crane into out-of-service condition using the instructions in the crane operations manual.
- 4.2 Return lifting and other equipment in conjunction with the lift to storage.

Outcome 5

Carry out and record regular checks and servicing for a platform crane on an offshore installation.

Performance criteria

- 5.1 Carry out daily crane checks and servicing.
- 5.2 Carry out weekly crane checks and servicing.
- 5.3 Record daily and weekly checks and servicing.

Replacement information	This unit standard replaced unit standard 9563.
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Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 February 2020	N/A

Consent and Moderation Requirements (CMR) reference	0079
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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 the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.