

Title	Plan for and lift, move, and place loads using mobile plant, in infrastructure works environments		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to plan for and lift, move, and place loads using mobile plant in an infrastructure works environment.
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Classification	Infrastructure Works > Generic Infrastructure Works
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Available grade	Achieved
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Pre-requisites	Class of driver licence and endorsements required for the vehicle being driven
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Guidance Information

- 1 Learning and assessment for this unit standard must be in accordance with the following:
 - Health and Safety at Work Act 2015;
 - NZ Gazette, No. 104 – 24 September 2015, Notice Under the Health and Safety in Employment (Pressure Equipment, Cranes, and Passenger Ropeways) Regulations 1999;
 - Approved Code of Practice for Load-lifting Rigging, December 2012; and all subsequent amendments and replacements.
- 2 Definitions

Capability refers to the ability of the machine to lift a load safely. Capability may be obtained from plant load charts and manufacturers operators manuals.

Company requirements refer to policy, procedures, and methodologies of the company. They include legislative and regulatory requirements applicable to the company or a specific site. Requirements are documented in the company's health and safety plans, traffic management plans, contract work programmes, quality assurance programmes, policies, job safety analysis, safe work method statements and procedural documents.

Lifting gear refers to the equipment used to link the object or material being lifted to an attachment on a machine.

Loads refer to objects that need to be mechanically lifted and moved. For this unit standard, loads do not include loose materials such as aggregates.

Included lift angle refers to the top angle between the slings or chains that must not exceed 120 degrees due to the increase in load placed on the slings or chains.

- 3 This unit standard does not meet the requirements for the Approved Code of Practice for Cranes, Page 47, Part 4: Requirements for persons operating or working with cranes.
- 4 It is recommended people achieve Unit 30072, *Demonstrate and apply knowledge of slinging regular loads safely*, or demonstrate equivalent knowledge and skills before being assessed against this unit standard.
- 5 The range for this unit standard is a single slung load and multiple slung load.

Outcomes and performance criteria

Outcome 1

Plan for lifting, moving and placing loads using mobile plant in an infrastructure works environment.

Performance criteria

- 1.1 The object to be lifted and the included lift angle is confirmed, and the weight of the object is determined in accordance with the operator manual and the Approved Code of Practice for Load-lifting Rigging.
- 1.2 The mobile plant and the lifting task are described in terms of the capability for lifting the object, lifting capacity, the certified lift point, in accordance with the rating load chart, the operator manual and the manufacturer's instructions.
- 1.3 Pre-operational checks are completed in accordance with the operator manual and company requirements.
- 1.4 The lifting gear and attachments used for the lifting task are selected and inspected for current tag and condition in accordance with the operator manual.
- 1.5 The confirmed route is described in terms of factors that can impact on the safe moving of the load on the site.

Range	safe work zones, exclusion zones, overhead obstructions, underground services, slope, open trench, excavations, level travel path, and free from obstructions, adjacent structures, traffic and people.
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- 1.6 The risk assessment for the task and the site is completed and documented, and control measures confirmed, in accordance with the load lift plan, and company requirements.

Range	risks may include but are not limited to – instability, weakness, crushing, jamming, communication failure, incorrect centre of gravity of load, rigging failure, pendulum swing, unusual sounds, positioning, attaching, detaching and securing loads, location, environmental and proximity hazards, location, overload, fixed installations.
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1.7 A safe working platform in relation to the conditions on the site is used in accordance with industry guidelines and company requirements.

Range site conditions may include but are not limited to – slope, near vertical face, wet ground, undulating ground, beside a trench, uncompacted or unstable ground.

1.8 The person in control of the lift and the communication protocols are confirmed in accordance with company requirements.

Outcome 2

Lift, move and place loads using mobile plant in an infrastructure works environment.

Performance criteria

2.1 The load for the job task is attached in accordance with the operator manual and industry guidelines.

2.2 A test lift is completed, and any readjustments made, in accordance with industry best practice, the operator manual, and the Approved Code of Practice for Load-lifting Rigging.

Range position of slings, adjustment of slings and or shackles in relation to load and lift direction, readjustments for load stability, balance and chain or sling placement.

2.3 The agreed route is walked, factors for walking the load and any additional risks not identified in the risk assessment are identified, in accordance with company requirements.

2.4 The load is lifted and placed safely, in the agreed position, and in accordance with spotter instructions, site communication protocols, industry guidelines, and company requirements.

2.5 The load is unhooked, the lifting gear is placed in approved storage, in accordance with the operator manual and company requirements.

2.6 The machine is parked in approved parking space and post operational checks are completed in accordance with company requirements.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 July 2018	31 December 2021
Review	2	25 July 2019	N/A

Consent and Moderation Requirements (CMR) reference	0101
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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 Connexis - Infrastructure Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.