Title	Plan and document lifts or cranes	f regular and ir	regular loads using multiple
Level	4	Credits	20

Purpose	 People credited with this unit standard are able to: plan and document lifts of regular and irregular loads; develop and document the lift plan; develop and document a lift plan for doing a tandem and/or multi-crane lift.
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Classification	Cranes > Crane Operation
Available grade	Achieved
Prerequisite	Unit 3789, <i>Sling varied regular loads and safely direct a crane during crane operations</i> , or demonstrate equivalent knowledge and skills.

Guidance Information

- 1 All tasks are to be carried out in accordance with company procedures, and industry good practice found in the following sources:
 - a company quality management systems;
 - b requirements and guidelines consistent with the Health and Safety at Work Act 2015;
 - c government and local government legislation, regulations, and bylaws;
 - d *Crane Safety Manual*, version 3.2 or higher, available from <u>http://shop.cranes.org.nz/;</u>
 - e Approved Code of Practice for Cranes, 2009, (3rd edition) and/or the Approved Code of Practice for Load-lifting Rigging available from <u>http://www.business.govt.nz/worksafe/information-guidance/all-guidance-items</u> and/or the LEENZ Code of Practice for the Safe Use of Lifting Equipment.
- 2 This unit standard is required by the *Approved Code of Practice for Cranes* to operate as a Dogman slinging loads.
- 3 Definitions

Crane – the definition as given in the Health and Safety in Employment (Pressure Equipment, Cranes, and Passenger Ropeways) Regulations 1999. *Regular loads* have the following characteristics – uniform weight distribution; concentric loading or regular proportions; known lifting points; repetitively lifted. *Irregular loads* have one or more of the following characteristics: unequal weight distribution, eccentric loading, irregular shape and proportions, with or without set lifting points.

Outcomes and performance criteria

Outcome 1

Plan and document lifts of regular and irregular loads.

Performance criteria

- 1.1 Assess the site conditions to determine the crane set-up on location and document the lift to accomplish the lift in a safe manner.
 - Range site conditions may include but are not limited to vehicles; equipment; ground condition; underground services; power sources; overhead service lines; trees, buildings, and structures; unauthorised people; adverse weather conditions; simultaneous operations; hazards to the environment; pinch points, the load is not as documents, aerodromes; evidence of six required.
- 1.2 Identify and document the appropriate crane and rigging configuration to complete the lift safely.
 - Range must include capacity, boom length required for job, maximum radius for lift, rigging equipment, load weight, size, lift points.

Outcome 2

Develop and document the lift plan.

Range one regular lift, one irregular lift.

Performance criteria

- 2.1 Perform calculations of combined weight of load, hook and rigging gear to confirm it is within capacity of cranes and maximum lift radius.
- 2.2 Identify hazards that may arise from the lift with risk evaluation completed.
 - Range swinging load, unauthorised people, adverse weather conditions, vision, poor communication, traffic, Safe Load Indicator (SLI), ground conditions, underground services, overhead services, simultaneous operations, equipment failure, obstructions, pinch points, aerodromes; evidence of four required.

2.3 Identify hazards and associated risks and document controls in the plan.

Range types of plans – lift plan, rigging plan;

hazards – tag lines, sharp edges, loose objects on the load, incorrect rigging, capacity of rigging, rigging discard criteria, centre of gravity shifting, ground conditions, weather; evidence of four required.

- 2.4 Identify the people involved in the lift, their responsibilities, and methods of communication.
- 2.5 Complete a lift plan and have the parties sign-off on the process document.

Outcome 3

Develop and document a lift plan for doing a tandem and/or multi-crane lift.

Range two lifting devices required.

Performance criteria

3.1 Perform calculations of combined weights and load share when doing a tandem and/or multi-crane lift.

Range one of the lifting device must be a crane.

- 3.2 Identify hazards and document the controls that may arise from the tandem and/or multi-crane lift process and the risk controls for the rigging plan when conducting the lift.
 - Range swinging load, unauthorised people, adverse weather conditions, vision, poor communication, traffic, Safe Load Indicator (SLI), ground conditions, underground services, overhead services, simultaneous operations, equipment failure, obstructions, pinch points, aerodromes; evidence of four required.
- 3.3 Identify the people involved in the tandem and/or multi-crane lift, their responsibilities, and methods of communication and document in the lift plan.
- 3.4 Complete a lift plan for a tandem and/or multi-crane lift and have the parties sign-off on the process document.

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 September 2019	N/A

Consent and Moderation Requirements (CMR) reference	0003	
This ONAD say has a second at http://www.weweencode.com/framesured/asceret/index.do		

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

Comments on this unit standard

Please contact The Skills Organisation <u>reviewcomments@skills.org.nz</u> if you wish to suggest changes to the content of this unit standard.