

Title	Prepare and sling complex loads for crane operations		
Level	4	Credits	25

Purpose	People credited with this unit standard are able to prepare and sling complex loads for crane operations.
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Classification	Cranes > Crane Operation
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Available grade	Achieved
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Prerequisites	Unit 3789, <i>Sling varied regular loads and safely direct a crane during crane operations</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

- 1 All tasks are to be carried out in accordance with the equipment manufacturer requirements, applicable company procedures, and industry good practice found in the following sources:
 - a company quality management systems;
 - b health and safety requirements and guidelines consistent with the Health and Safety at Work Act 2015;
 - c equipment manufacturers' operating instructions;
 - d government and local government legislation, regulations, and bylaws;
 - e *Crane Safety Manual*, version 3.2 or higher, available from <http://shop.cranes.org.nz/>;
 - f *Approved Code of Practice for Cranes*, 2009 (3rd edition), and/or the *Approved Code of Practice for Load-lifting Rigging* available from <http://www.business.govt.nz/worksafe/information-guidance/all-guidance-items>.

- 2 Definitions

Crane – the definition as given in the Health and Safety in Employment (Pressure Equipment, Cranes, and Passenger Ropeways) Regulations 1999;

Company procedures refer to instructions to staff on policy and procedures, which are documented in memo or manual format and are available in the workplace. These requirements may include but are not limited to – site specific requirements, company quality management requirements, Approved Codes of Practice and guidelines, and legislative requirements.

Complex loads – also called 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.

Industry good practice – practice that meets the requirements of the Approved Code of Practice for Cranes, Approved Code of Practice for Load-lifting Rigging, and the Crane Safety Manual.

3 Assessment

Assessment must be carried out in a crane workplace or equivalent.

Assessment must be carried out using either a crane with a 10 tonne minimum capacity; or a tower crane or self-erecting tower crane with a 4 tonne minimum capacity.

Outcomes and performance criteria
Outcome 1

Prepare and sling complex loads for crane operations.

Performance criteria

1.1 Describe the purpose and use of types of lifting equipment in accordance with industry best practice and company procedures.

Range ropes, chains, web slings, lifting clutch and eye insert, shackles, spreader bar, chain hoist, equaliser, chain block, lifting beams, eye bolts, concrete lifting systems.

1.2 Prepare and sling complex loads in accordance with industry best practice and company procedures.

Range minimum of two complex loads.

1.3 Determine factors affecting the safe operation of the crane.

Range factors include but are not limited to – weather, weight of load, site conditions, centre of gravity, nature and stability of the load.

1.4 Select the lifting equipment and use sling and lifting equipment for the load in accordance with industry best practice and company procedures.

1.5 Select and apply packing and dunnage to crane lift situations in accordance with industry best practice and company procedures.

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	9 April 1995	31 December 2016
Review	2	22 May 1997	31 December 2016
Review	3	27 March 2000	31 December 2016
Review	4	20 June 2006	31 December 2016
Review	5	15 March 2012	31 December 2016
Review	6	16 July 2015	31 December 2021
Review	7	26 September 2019	N/A

Consent and Moderation Requirements (CMR) reference

0003

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

Comments on this unit standard

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