

Title	Review a lift plan, and lift loads using a crane working in tandem during crane operations		
Level	4	Credits	4

Purpose	People credited with this unit standards are able to: identify hazards on site, and describe the effects of crane movements when cranes are working in tandem; review a lift plan for cranes working in tandem; and lift loads using a crane working in tandem.
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Classification	Cranes > Crane Operation
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Available grade	Achieved
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Explanatory notes

- 1 Definitions
The definition of *crane* is as given in the Health and Safety in Employment (Pressure Equipment, Cranes, and Passenger Ropeways) Regulations 1999. This definition is also applicable to self-erecting tower cranes.
A crane working in *tandem* – at least two cranes involved in the lift.
- 2 Assessment
Assessment must be carried out in a crane environment.
- 3 All tasks are to be carried out in accordance with the equipment manufacturers' requirements and company standards and procedures based on industry requirements in:
 - a company quality management systems;
 - b health and safety requirements and guidelines consistent with the Health and Safety in Employment Act 1992 (HSE Act);
 - c equipment manufacturers' operating instructions;
 - d government and local government legislation, regulations, and bylaws;
 - e *Crane Safety Manual*, published by the Crane Association of New Zealand (Inc), PO Box 25 156, Panama Street, Wellington 6146;
 - f *Approved Code of Practice for Load-Lifting Rigging*, published by the Department of Labour, available at <http://www.dol.govt.nz>;
 - g *Approved Code of Practice for Cranes*, published by the Department of Labour, available at <http://www.dol.govt.nz>.
- 4 HSE Act Codes of Practice are available from the Department of Labour website, <http://www.osh.dol.govt.nz>.

Outcomes and evidence requirements

Outcome 1

Identify hazards on site, and describe the effects of crane movements when cranes are working in tandem.

Evidence requirements

- 1.1 Hazards are identified on site, and procedures are implemented to manage or monitor their effects, in accordance with company procedures and the on-site hazard identification and management plan.
- 1.2 Tandem lifting is described in terms of the effects of movement of one crane on another.

Outcome 2

Review a lift plan for cranes working in tandem.

Evidence requirements

- 2.1 The lift plan is reviewed to identify the weight and proportion of the load to be lifted by each crane.
- 2.2 The lift plan is reviewed to identify the load balance point, and slings required in accordance with company procedures, and the *Approved Code of Practice for Load-Lifting Rigging*.
- 2.3 The lift plan is reviewed to identify the load rigging in accordance with the *Approved Code of Practice for Load-Lifting Rigging*, and load manufacturer's requirements.
- 2.4 The lift plan is reviewed to identify the personnel and communication methods between personnel in accordance with company procedures.
- 2.5 The lift plan is reviewed to identify movement of the load.

Outcome 3

Lift loads using a crane working in tandem.

Evidence requirements

- 3.1 The load is lifted in accordance with the lift plan.
- 3.2 Boom radius and length are positioned throughout lifting to avoid any contact.
- 3.3 Hoist ropes remain vertical throughout the lift in accordance with company procedures.

- 3.4 Crane movements are coordinated to avoid overlifting and side loading the boom, allowing crane to slew freely in accordance with company procedures.
- 3.5 Safe load indicator (SLI) readings and clearances are monitored throughout the lift to avoid overloading cranes in accordance with company procedures.

Planned review date	31 December 2016
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 May 2008	30 June 2013
Review	2	15 March 2012	N/A

Consent and Moderation Requirements (CMR) reference	0025
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

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.