

## Operate a pendant controlled overhead crane and lift and place regular loads

**Level** 2

**Credits** 10

**Purpose** People credited with this unit standard are able to demonstrate knowledge of: company procedures and requirements for lifting practices and overhead cranes; pendant and remote controlled cranes, monorail, and suspended hoists and lifting equipment; the care and safe use of pendant and remote controlled cranes, monorail, and suspended hoists and lifting equipment; and to sling, lift, travel, and unload or place regular loads; and park crane and store equipment.

**Subfield** Cranes

**Domain** Crane Operation

**Status** Registered

**Status date** 20 June 2006

**Date version published** 20 June 2006

**Planned review date** 31 December 2011

**Entry information** Open.

**Accreditation** Evaluation of documentation by NZQA and industry.

**Standard setting body (SSB)** Opportunity – The Training Organisation

**Accreditation and Moderation Action Plan (AMAP) reference** 0025

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

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### Special notes

- 1 The definition of a *crane* is as given in the Health and Safety in Employment (Pressure Equipment, Cranes, and Passenger Ropeways) Regulations 1999.
- 2 All elements are to be assessed in a workplace environment(s) or equivalent.

- 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 *PCA Crane Safety Manual*, published by the Power Crane Association of New Zealand (Inc), PO Box 30 074, LOWER HUTT.
- 4 HSE Act Codes of Practice are available from the Occupational Safety and Health Service of the Department of Labour website, <http://www.osh.dol.govt.nz>.
- 5 This unit standard is for candidates who operate pendant controlled or remote controlled overhead cranes.
- 6 Candidates who operate cab controlled overhead cranes are referred to Unit 3790, *Operate a cab controlled overhead crane and lift and place loads*.
- 7 Regular loads have the following characteristics – uniform weight distribution; concentric loading or regular proportions; known lifting points; repetitively lifted.

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## Elements and performance criteria

### Element 1

Demonstrate knowledge of company procedures and requirements for lifting practices and overhead cranes.

#### Performance criteria

- 1.1 The description outlines procedures and requirements pertaining to lifting practices and overhead crane use in accordance with the workplace management system.

Range            authorisation to use equipment, task instructions, selection and use of lifting equipment.

### Element 2

Demonstrate knowledge of pendant and remote controlled cranes, monorail, and suspended hoists and lifting equipment.

#### Performance criteria

- 2.1 Terminology used for crane, hoist and lifting equipment is described, consistent with company procedures.

2.2 The functions of critical components and equipment are described in accordance with equipment manufacturers' and company procedures.

Range may include but is not limited to – brakes, ropes, sheaves, load equalisers, load indicators, limit warning devices, slings, spreaders, hooks, bins, tongs, grabs, magnets.

### Element 3

Demonstrate knowledge of the care and safe use of pendant and remote controlled cranes, monorail, and suspended hoists and lifting equipment.

#### Performance criteria

3.1 The care and use of the crane and lifting equipment are described in accordance with the crane and equipment manufacturers' instructions and company procedures.

Range pre-start checks and service, fault reporting, load attachment, load lifting, load traversing, load placement.

3.2 Hazards are identified and dealt with in accordance with workplace safety management system.

Range may include but is not limited to – access, obstructions, field of vision, communications, travel route, unauthorised people, insecure loads, unstable loads, unknown loads, nature of loads.

### Element 4

Sling, lift, travel, and unload or place regular loads.

Range range of loads used in the workplace.

#### Performance criteria

4.1 Lifting equipment is selected, and load is slung in accordance with company procedures.

Range may include but is not limited to – wire slings, chains, magnets, nylon straps, lifting beams, spreader bars.

4.2 Load is lifted, moved, and unloaded or placed in accordance with crane manufacturers' instructions and company procedures.

## Element 5

Park crane and store equipment.

### Performance criteria

- 5.1 Crane is parked in accordance with company procedures.
- 5.2 Equipment is stored in accordance with company procedures.

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### Please note

Providers must be accredited by the Qualifications Authority, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP 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.

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### Comments on this unit standard

Please contact Opportunity – The Training Organisation [info@pca.org.nz](mailto:info@pca.org.nz) if you wish to suggest changes to the content of this unit standard.