

Title	Demonstrate knowledge of crane types, and safe practices required in the crane industry		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to demonstrate knowledge of: the main types and categories of cranes; safe practices in crane operations; daily checks and servicing of cranes and associated equipment; and the documentation for crane operations and equipment maintenance requests.
----------------	--

Classification	Cranes > Crane Operation
-----------------------	--------------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Definition
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 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.
- 3 HSE Act Codes of Practice are available from the Occupational Safety and Health Service of the Department of Labour website.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the main types and categories of cranes.

Performance criteria

- 1.1 The categories, types, and safe working loads (SWL) of cranes used in the crane industry in New Zealand are described in accordance with the *Crane Safety Manual*.

- 1.2 Crane descriptions, configurations, recommended uses, capabilities, and performance ratings are described in accordance with crane manufacturers' specifications.

Outcome 2

Demonstrate knowledge of safe practices in crane operations.

Performance criteria

- 2.1 Safe crane practices for crane operations are described in accordance with the relevant HSE Act Codes of Practice, company procedures, and the *Crane Safety Manual*.
- 2.2 Crane manufacturers' crane rating charts and range diagrams are described for crane use in accordance with crane manufacturers' requirements and in accordance with the *Crane Safety Manual*.

Range load charts, range diagrams, crane capacities, safe load indicators.

Outcome 3

Demonstrate knowledge of daily checks and servicing of cranes and associated equipment.

Performance criteria

- 3.1 Checks and servicing are described in accordance with equipment manufacturers' instructions and company procedures.
- 3.2 Pre-start checks are described in accordance with equipment manufacturers' instructions and company procedures.
- 3.3 Matters requiring expertise beyond that of the operator are described in accordance with company procedures.

Range cranes, chassis, power source, lifting equipment.

Outcome 4

Demonstrate knowledge of the documentation for crane operations and equipment maintenance requests.

Performance criteria

- 4.1 Documentation of crane operations and equipment maintenance requests is described in accordance with company procedures.

Range includes but is not limited to – log books, records, job sheets, crane equipment inventories, equipment maintenance requests.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	9 April 1995	30 June 2013
Review	2	22 May 1997	30 June 2013
Review	3	27 March 2000	30 June 2013
Review	4	20 June 2006	30 June 2013
Review	5	15 March 2012	31 December 2027
Review	6	27 November 2025	31 December 2027

Consent and Moderation Requirements (CMR) reference	0025
--	------

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