

Title	Use a radio remote or pendant controlled gantry crane to lift and place regular loads		
Level	3	Credits	10

Purpose	<p>People credited with this unit standard are able:</p> <ul style="list-style-type: none"> – demonstrate knowledge of using a radio remote or pendant controlled gantry crane; – demonstrate knowledge of radio remote or pendant controlled gantry crane components, equipment, and attachments; – sling, lift, travel, and unload or place regular loads using a radio remote or pendant controlled gantry crane; – park radio remote or pendant controlled gantry crane and store equipment; and – carry out daily and weekly operator maintenance of a radio remote or pendant controlled gantry crane.
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Classification	Cranes > Crane Operation
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Available grade	Achieved
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Prerequisite	Unit 30072, <i>Demonstrate and apply knowledge of slinging regular loads safely</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

1 Definitions

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

Gantry crane – one of a group of cranes collectively known as gantry cranes that generally have an overhead beam as a main part of their structure.

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.

Regular loads have the following characteristics – uniform weight distribution; concentric loading or regular proportions; known lifting points; repetitively lifted.

2 Assessment

- Assessment must be carried out in a crane workplace or other non-simulated environment. Non-simulated environment means; working with the skill sets required in authentic experience in an organisational context, with commercial competence and the expectations and possible consequences of that context.
- Assessment must involve a minimum of two different assessor observed lifts.

- 3 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 manufacturer operating instructions;
 - d government and local government legislation, regulations, and bylaws;
 - e *Crane Safety Manual*, version 3 or higher, available from <http://shop.cranes.org.nz/>;
 - f *Approved Code of Practice for Cranes* available from available from <http://www.business.govt.nz/worksafe/information-guidance/all-guidance-items>.
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Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of using a radio remote or pendant controlled gantry crane.

Performance criteria

- 1.1 Demonstrate knowledge of the hazards associated with the operation of a radio remote or pendant controlled gantry crane.
- Range may include twin hoist or twin gantry for specific workplaces that have these available.
- 1.2 Demonstrate knowledge of the operational requirements applicable to a radio remote or pendant controlled gantry crane.
- Range includes but is not limited to – authorisation to use equipment, pre-start checks and service, fault reporting, operation cycle, parking.
- 1.3 Demonstrate knowledge of the requirements for lock out and tag out processes for a radio remote or pendant controlled gantry crane.

Outcome 2

Demonstrate knowledge of radio remote or pendant controlled gantry crane components, equipment, and attachments.

Performance criteria

- 2.1 Describe the functions of critical components and equipment using lifting equipment terminology.
- Range may include but is not limited to – brakes, ropes, sheaves, load equalisers, load indicators, limit warning devices, slings, spreaders, hooks, bins, clamps, grabs, magnets.

2.2 Describe the care and use of lifting equipment.

Range may include but is not limited to – snatch blocks, slings, spreaders, hooks, bins, clamps, grabs, magnets, load equalisers, delta plates, ropes, chains.

Outcome 3

Sling, lift, travel, and unload or place regular loads using a radio remote or pendant controlled gantry crane.

Performance criteria

3.1 Identify and implement controls to lower the risk, and foreseeable hazards.

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

3.2 Confirm any person directing lifts, and the communication methods to be used during lift operation.

3.3 Select lifting equipment, and sling load safely.

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

3.4 Lift, travel, and unload or place regular loads using a radio remote or pendant controlled gantry crane.

3.5 Operate a radio remote or pendant controlled gantry crane in response to recognised overhead crane hand signals.

Range must include an explanation of the emergency stop hand signal.

Outcome 4

Park radio remote or pendant controlled gantry crane and store equipment.

Performance criteria

4.1 Park crane and store equipment.

4.2 Record and take action for any defects in crane and equipment.

4.3 Complete documentation as required.

Outcome 5

Carry out daily and weekly operator maintenance of a radio remote or pendant controlled gantry crane.

Performance criteria

5.1 Carry out daily and weekly crane checks and maintenance.

Planned review date	31 December 2022
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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	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 2018
Review	6	28 September 2017	N/A

Consent and Moderation Requirements (CMR) reference	0003
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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 reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.