

<b>Title</b>	<b>Complete construction rigging work</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard, for construction rigging work, are able to: prepare site; move, place, and secure loads; ensure continuing stability of the load; and dismantle and remove load shifting equipment; and dismantle structures and/or plant for construction rigging work.
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<b>Classification</b>	Lifting Equipment > Core Rigging
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 *Rigging* – as is defined in the *Approved Code of Practice for Load-Lifting Rigging*.
- 2 All tasks must be carried out in accordance with the industry good practice based on:
  - a quality management systems;
  - b the Approved Code of Practice for Load-lifting Rigging available from: <https://worksafe.govt.nz/topic-and-industry/load-lifting-and-rigging/>;
  - c designer's requirements and manufacturers' operating instructions, legislation, regulations, bylaws, Health and Safety at Work Act 2015, and New Zealand Standards; and all subsequent amendments and replacements.
- 3 Those undertaking assessment against this unit standard should note that work in the rigging industry can take place at heights well above ground level, and therefore requires a relevant level of physical fitness and ability to work at heights.
- 4 The range statement which applies to the whole unit standard and defines construction is as follows:

The equipment range is to include work associated with: steel erection; all hoists, placement of precast concrete; static lines and fall arrest systems; mast climbers; perimeter safety screens and shutters; cantilevered crane loading platforms fixed to the building and/or structure; rigging of cranes; and dual lifts.

The equipment range is to exclude work including: rigging of gin poles and shear legs; flying foxes and cableways; guyed derricks and structures; suspended scaffolds; and fabricated hung scaffolds.

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## Outcomes and performance criteria

### Outcome 1

Prepare site for rigging work.

#### Performance criteria

- 1.1 Isolate site with barriers.
- 1.2 Use signage to carry out safety procedures in accordance with industry standards.
- 1.3 Inspect, assemble and erect rigging equipment appropriate to job in accordance with manufacturers' specifications.

### Outcome 2

Move load.

#### Performance criteria

- 2.1 Control risks while moving loads.
  - Range communication and signal methods, centre of gravity, access, obstacles, wind conditions, final resting place, design specifications, stability, use of load shifting equipment, use of rigging gear.
- 2.2 Control risks while working at heights, on uncompleted structures, and/or in confined and enclosed spaces.
  - Range safety nets, static lines, restraint and fall arrest and systems.
- 2.3 Inspect and connect load connection equipment, and where appropriate load movement equipment, in accordance with manufacturers' specifications.
  - Range slings, rope, shackles, eye bolts, spreader beams and equalising gear, clamps, pulley systems, chain blocks and pull lifts, winches, jacks, skids, skates and sliding shoes, rollers, cradle timbers, chocks and wedges, packers, fish-plates and bolts, feeler gauges, rigging screws, tirsors, turn buckles.
- 2.4 Calculate safe working loads using load charts.

2.5 Load is moved safely.

Range communication and signal methods, centre of gravity of load, access, obstacles, wind conditions, final resting place, design specifications, stability, use of load shifting equipment, use of rigging gear.

### **Outcome 3**

Place and secure load.

#### **Performance criteria**

- 3.1 Select and check materials and methods used for fixing, anchoring, bracing, supporting, and securing load (temporary and permanent).
- 3.2 Load is lowered without injury to persons or damage to components and/or equipment using appropriate equipment and communication.
- 3.3 Secure and place load using designer's specifications.

### **Outcome 4**

Ensure continuing stability of the load.

#### **Performance criteria**

- 4.1 Maintain the stability of load during load movement procedure in accordance with manufacturer's and designer's specifications.
- 4.2 Complete the load and/or structure in accordance with manufacturer's and designer's specifications.
- 4.3 Identify local conditions which may affect continuing stability of the load, and measures taken to ensure continuing stability.

### **Outcome 5**

Dismantle and coordinate transport of load shifting equipment.

#### **Performance criteria**

- 5.1 Dismantle load shifting equipment in accordance with manufacturers' specifications.
- 5.2 Dismantle items brought on site in accordance with manufacturers' specifications.
- 5.3 Coordinate transport in sequence required for unloading and storing.

**Outcome 6**

Dismantle structures and/or plant for construction rigging work.

**Performance criteria**

- 6.1 Plan and carry out the dismantling using original specifications and amendments.
- 6.2 Apply safety measures to load calculations in accordance with specifications and design requirements.
- 6.3 Carry out the dismantling of rigging without injury to persons or damage to components and/or equipment.
- Range one of – engineer, designer, manufacturer, supervisor.
- 6.4 Dismantle the rigging equipment in accordance with planned hazard prevention and control measures.

<b>Replacement information</b>	This unit standard and unit standard 4213 were replaced by skill standard 40497.
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**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	18 June 1995	31 December 2019
Revision	2	20 April 1999	31 December 2019
Revision	3	20 May 2002	31 December 2019
Review	4	23 March 2006	31 December 2020
Review	5	24 January 2019	31 December 2027
Review	6	27 March 2025	31 December 2027

<b>Consent and Moderation Requirements (CMR) reference</b>	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.