

<b>Title</b>	<b>Describe, select and install temporary structural anchors for rigging purposes</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe and select temporary structural anchors for rigging purposes; install temporary structural anchors for rigging purposes; and, test temporary structural anchors in different substrates.
----------------	--

<b>Classification</b>	Lifting Equipment > Core Rigging
-----------------------	----------------------------------

<b>Available grade</b>	Achieved
------------------------	----------

### Guidance Information

- 1 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
  - d all subsequent amendments and replacements.
- 2 Definitions  
*Rigging* – as defined in the *Approved Code of Practice for Load-lifting Rigging*.  
*Working load limit* refers to the maximum load that can be applied to a product straight line pull.
- 3 Assessment  
 Those undertaking training and assessment against this unit standard should note that rigging work may take place at heights well above ground level and, therefore, requires a relevant level of physical fitness and ability to work at heights.

### Outcomes and performance criteria

#### Outcome 1

Describe and select temporary structural anchors for rigging purposes.

#### Performance criteria

- 1.1 Determine the suitability of the substrates for installing temporary anchors.

Range concrete, steel, timber, engineer's report.

- 1.2 Describe the properties, purpose, limitations and advantages of various anchors.

Range torque controlled, screw anchor, chemical anchor, coil expansion anchor, eye bolts, Working Load Limit, personal safety, lifting, anchoring, manufacturers information.

- 1.3 Select appropriate anchor and fixing for the substrate and imposed loads in accordance with industry good practice and manufacturers information.

Range torque controlled, screw anchor, chemical anchor, coil expansion anchor, eyebolts.

## Outcome 2

Install temporary structural anchors for rigging purposes.

### Performance criteria

- 2.1 Install temporary structural anchors into timber.

Range screws, coach screws, coach bolts, brackets, eye bolts, battery/power drill, manufacturers information.

- 2.2 Install temporary structural anchors into steel.

Range I Beam, rectangular hollow section-steel (RHS), threaded rod, eye bolts, brackets, power drill, magnetic base drill, manufacturers information.

- 2.3 Install temporary structural anchors into concrete.

Range impact drill or core drill, torque controlled, screw anchor, chemical anchor, coil expansion anchor, threaded rod, eye bolts, brackets, manufacturers information.

## Outcome 3

Test temporary structural anchors in different substrates.

### Performance criteria

- 3.1 Plan for testing of temporary structural anchors in accordance with manufacturers' information and standard guidance.

Range types of substrate, number of tests required, Working Load Limit, selection of testing equipment, manufacturer's information.

- 3.2 Test temporary anchors when anchored in the substrate.

Range concrete, one other substrate.

## 3.3 Document the testing.

Range tags, register.

---

<b>Replacement information</b>	This unit standard was replaced by skill standard 40499.
--------------------------------	--

**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	24 January 2019	31 December 2027
Review	2	27 March 2025	31 December 2027

<b>Consent and Moderation Requirements (CMR) reference</b>	0003
--	------

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