

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

Purpose	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.
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Classification	Lifting Equipment > Core Rigging
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Available grade	Achieved
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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 Definition
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.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 January 2019	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.