

## 40499 Install temporary structural anchorages for rigging operations

<b>Kaupae   Level</b>	4
<b>Whiwhinga   Credit</b>	6
<b>Whāinga   Purpose</b>	<p>This standard recognises the skills required to select, install, test and visually inspect temporary structural anchorages and lifting point components for rigging operations.</p> <p>This standard contributes to the New Zealand Certificate in Rigging (Level 4) [Ref: 2356].</p>

### Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

<b>Hua o te ako   Learning outcomes</b>	<b>Paearu aromatawai   Assessment criteria</b>
1. Select, install and test temporary anchorages for rigging operations.	a. Explain temporary structural anchorages in terms of substrate suitability, anchor suitability, and load and load movement suitability.
	b. Select anchor and fixing for substrate application and load characteristics and load movement.
	c. Install temporary structural anchorages into timber, steel, and concrete.
	d. Plan and test temporary structural anchorages.
2. Undertake visual inspection of anchorages and lifting point components to identify potential failure points.	a. Visually examine anchorages and lifting point components for points of failure.

### Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

#### Assessment specifications:

The candidate will be capable of installing and inspecting temporary and improvised anchorages that meet substrate, load mass and lifting equipment requirements for a rigging operation.

Substrates must include – timber, steel and concrete.

To achieve this standard the candidate must be capable of consistently performing the requirements:

- on a jobsite where the rigging operation will take place
- with plant and equipment that meets industry standards
- to current and relevant legislation, standards and codes (including operational safety practices)
- to requirements set out in accordance with equipment and manufacture guidelines, and engineering specifications.

**Ngā momo whiwhinga | Grades available**

Achieved.

**Ihirangi waitohu | Indicative content**

## Temporary structural anchors and anchorage

- Knowledge of temporary structure anchorages – anchor purpose and properties, and substrate suitability.
- Selecting and fixing anchors for substrate and imposed loads – type and number of lifting anchors for safe working load and the way you intend to lift.
- Load lifting anchorage – distribution, safety, load characteristics, environmental conditions, complex lifting scenario.

## Anchor installation

- Timber installation – equipment and hardware, including fasteners and tools, and manufactures requirements.
- Steel installation – equipment and hardware, including fasteners and tools, and manufactures requirements.
- Concrete installation – equipment and hardware, including fasteners and tools, and manufactures requirements.

## Testing anchor installation

- Testing plan – substrate type, number of tests required, working load limits, manufacturer's requirements, and workplace requirement.
- Testing procedure and documentation.
- Test and tag of anchors when anchored in substrates.

## Visual inspection

- Visually inspecting anchorages.

**Rauemi | Resources**

Programme guidance information for the New Zealand Certificate in Rigging (Level 3) [Ref:2355] is available from [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz).

Approved Code of Practice for Load-lifting Rigging, available from [www.worksafe.govt.nz](http://www.worksafe.govt.nz).

**Pārongo Whakaū Kouna | Quality assurance information**

<b>Ngā rōpū whakatau-paerewa  </b> Standard Setting Body	Waihanga Ara Rau – Construction & Infrastructure Workforce Development Council
<b>Whakaritenga Rārangi Paetae Aromatawai  </b> DASS classification	Service Sector > Lifting Equipment > Core Rigging
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga  </b> CMR	0003

<b>Hātepe   Process</b>	<b>Putanga   Version</b>	<b>Rā whakaputa   Review Date</b>	<b>Rā whakamutunga mō te aromatawai   Last date for assessment</b>
<b>Rēhitatanga   Registration</b>	1	27 March 2025	N/A
<b>Kōrero whakakapinga   Replacement information</b>	This skill standard replaced unit standard 31661.		
<b>Rā arotake   Planned review date</b>	31 December 2029		

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) to suggest changes to the content of this skill standard.