

40829**Carry out slinging and communicate effectively
in a lifting operations context**

Kaupae Level	3
Whiwhinga Credit	10
Whāinga Purpose	<p>This skill standard is for people intending to complete a qualification and/or credentials in crane operation.</p> <p>People with this skill standard have the skills to determine lifting requirements for regular and irregular loads, prepare and sling loads safely and apply communication methods during lifting operations.</p> <p>This skill standard may contribute to New Zealand qualifications designed for crane operation.</p>

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Determine lifting requirements for regular and irregular loads.	a. Rigging plan requirements are explained as appropriate to loads, and with reference to other workers and people around operations.
	b. Regular and irregular loads are differentiated using examples that show their characteristics.
	c. The importance of load equalisation on slings is explained using examples.
	d. The concept of centre of gravity and its effect on rigging and load stability is described.
	e. Appropriate measures and methods to control regular and irregular loads are identified.
	f. Different environmental conditions that can influence the load and equipment are explained.
2. Prepare and sling regular loads safely.	a. Lifting gear is inspected to ensure it is appropriate for use.
	b. Regular loads for lifting are slung appropriate to the load.
3. Apply lifting industry communication methods.	a. Internationally recognised communication methods for lifting operations are demonstrated.

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

Assessment specifications:

Communication methods applied must include a minimum of six internationally recognised hand signals, and may include appropriate closed radio channels, backing, audible, recognised stop signal for use with a crane operator.

A minimum of three items of lifting gear must be inspected, which may include shackles, eye bolts, wire rope, slings, chains, synthetic slings.

Directing and controlling of loads must be for loads of different materials with different rigging types that have an altered Working Load Limit (WLL) due to sling angle or configuration. This may include parallel basket, choke, basket included angle, double wrap, any other lifting equipment.

Definitions:

Irregular loads include one or more of the following characteristics: unequal weight distribution, eccentric loading, irregular shape and proportions, with or without set lifting points.

Regular loads have the characteristics of uniform weight distribution, concentric loading or regular proportions, known lifting points, and have been repetitively lifted.

Ngā momo whiwhinga | Grades available

Achieved.

Ihirangi waitohu | Indicative content

- Hazards related to slinging of regular loads.
- Lift plan requirements.
- Lifting equipment types, purposes, and uses.
- Hazards from load movement.
- Lifting gear, WLL tables and how they should be used.
- Differences between WLL, safe working load (SWL) and minimum breaking load (MBL), and safety factors for lifting gear.
- The process of packing and dunnage of loads.
- Communication methods used within the crane industry.

Rauemi | Resources

- *Crane Programme Guidance*, available from qualifications@waihangaararau.nz.
- *Approved Code of Practice for Cranes*, available from www.worksafe.govt.nz.
- *Crane Safety Manual: For Crane Operators & Dogmen* (Crane Association of New Zealand), available from www.cranes.org.nz.

Pārongo Whakaū Kouna | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Service Sector > Cranes > Crane Operation
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0120

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	27 November 2025	N/A
Kōrero whakakapinga Replacement information	This skill standard and skill standard 40830 replaced unit standard 3789.		
Rā arotake Planned review date	31 December 2030		

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