

40842**Plan lifts for regular and irregular loads**

Kaupae Level	4
Whiwhinga Credit	25
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 plan to lift regular and irregular loads, and document a lift and rigging plan for a tandem lift and implement a lift plan.</p> <p>This skill standard may contribute to New Zealand qualifications designed for crane operation.</p>
Whakaakoranga me mātua oti Pre-requisites	<p>Skill standard 40829 <i>Carry out slinging and communicate effectively in a lifting operations context</i> and skill standard 40830 <i>Sling varied regular loads and direct a crane during lifting operations</i>, or equivalent skills and knowledge.</p>

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Plan to lift, and complete documentation for, regular and irregular loads.	a. Site conditions are assessed to determine crane set-up requirements.
	b. Appropriate crane and rigging configuration for the lifts is identified and documented.
	c. Combined weight of load, hook and rigging gear calculated to confirm capacity of cranes and maximum lift radius.
	d. Risk evaluation for the lifts is completed, with hazards and controls documented.
	e. People involved in the lifts, their responsibilities and methods of communication are identified.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
2. Document a lift and rigging plan for a tandem lift.	a. Combined weights and load share are calculated for the lift.
	b. Hazards related to the lift, and appropriate controls, are identified and recorded.
	c. Document lift plan.
	d. People involved in the lift, their responsibilities and methods of communication are identified.
	e. Lift and rigging plan are confirmed as completed and sign-off is received from related parties.
3. Implement a lift plan	a. Lift plan is implemented.

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

Assessment specifications:

Site conditions may include vehicles, equipment, ground condition, underground services, power sources, overhead service lines, trees, buildings and structures, unauthorised people, weather conditions, simultaneous operations, hazards, pinch points, load differs from documentation, traffic, aerodromes.

Crane and rigging configuration includes capacity, boom length for the job, maximum radius for the lift, rigging equipment, load weight, size, lift points.

Documentation must include, for a regular load, the lift plan, and for irregular loads, lift and rigging plans.

Hazards for regular and irregular loads may include tag lines, sharp edges, swinging load, loose objects on the load, incorrect rigging, capacity of rigging, centre of gravity shifting, ground conditions, adverse weather conditions, unauthorised people, vision, poor communication, traffic, safe load indicator (SLI), underground services, overhead services, rigging equipment rejection criteria, simultaneous operations, equipment failure, obstructions, pinch points, aerodromes.

A lift plan for an assisted lift must include two lifting devices (for example, telehandlers, chain blocks, winches), one of which must be a crane.

People involved in the lift, will be site-dependent and may include people involved in rigging and lifting operations, and those managing the site.

Definitions:

Irregular loads have 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, repetitively lifted.

Tandem lift refers to both lifting devices acting together to lift and place a load.

Ngā momo whiwhinga | Grades available

Achieved.

Ihirangi waitohu | Indicative content

- Rating charts.
- Health and safety requirements for individual sites.
- Crane capabilities.
- Capabilities of people involved in the lift.
- Examples of completed lift plans and rigging plans.
- Understanding lifting equipment (uses, capacities) and inspection.

Rauemi | Resources

- Approved Code of Practice for Cranes, available from www.worksafe.govt.nz.
- Company quality management systems and policies.
- Crane Programme Guidance, available from qualifications@waihangaarau.nz.
- Crane Safety Manual: For Crane Operators & Dogmen (Crane Association of New Zealand), available from www.cranes.org.nz.
- Government and local legislation, regulations and bylaws.

Pārongo Whakaū Kounga | 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 replaced unit standard 31904.		
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.