

Programme Overview

**New Zealand Certificate in Cranes (Level 4)
with strands (Ref: 3731)**

Version 1 | Credits 50-60

Indicative duration: 7 - 9 months

Total learning hours: 500 to 600



Entry requirements

Candidates are expected to be employed in the cranes industry. The New Zealand Certificate in Cranes (Level 3) with strand in Dogman [Ref: 3730] is a prerequisite for this qualification, or equivalent knowledge and skills. Where prospective learners hold equivalent knowledge and skills and hold unit standard 3789, they may apply to the programme provider for direct entry.

Explanatory note on Equivalent Knowledge and Skills

First, there are two statements that need to be taken into consideration here.

1. This qualification builds on the New Zealand Certificate in Cranes (Level 3) with strands in Cab-Controlled Overhead Crane, Dogman, Load-Lifting Rigging Production, Pendant-Controlled Overhead Crane, Self-Erecting Tower Crane, Truck Loader Crane [Ref: 3730].
2. Candidates are expected to be employed in the cranes industry. The New Zealand Certificate in Cranes (Level 3) with strand in Dogman [Ref: 3730] is a prerequisite for this qualification, or equivalent knowledge and skills. Where prospective learners hold **equivalent knowledge and skills and hold unit standard 3789** they may apply to the programme provider for direct entry.

Check.

- Trainee holds NZC Cranes L3 Dogman Strand **Or**
- Trainee holds NZC in any old Crane Operations L3 or 4 and holds the Unit 3789 **Or**
- Trainee holds all the units equivalent to the above-mentioned qualifications but does not hold the qualification. **Or**
- Trainee holds 3789 plus random units that need further investigation to see if they hold equivalent knowledge and skills. These records need to be sent to Account Managers for approval.
- Approval evidence of meeting the Prerequisite requirements will be saved into the Trainee file in Sims by Account Manager or enrolments person.

We use the below as a checklist against their record of learning to see if they hold enough of the below to deem them equivalent.

These are generic units from the old L3 qualifications

497 Demonstrate knowledge of workplace health and safety

3788 Demonstrate knowledge of crane types, and safe practices required in the crane industry

17593 Apply safe work practices in the workplace

3787 Demonstrate knowledge of regulatory requirements relating to cranes

Plus 3789

OR The new generic unit standards from the new qualification.

30072 Demonstrate and apply knowledge of slinging regular loads safely

30265 Apply health and safety risk assessment to a job role

19522 Undertake job safety analysis

30266 Demonstrate knowledge of workplace health and safety culture and practices

3788 Demonstrate knowledge of crane types, and safe practices required in the crane industry

30264 Describe duties, rights, representation, and the regulator in terms of New Zealand health and safety legislation

25043 Lockout and reinstate machinery in the workplace

Plus 3789

Education pathway

This qualification builds on the New Zealand Certificate in Cranes (Level 3) with strands in Cab-Controlled Overhead Crane, Dogman, Load-Lifting Rigging Production, Pendant-Controlled Overhead Crane, Self-Erecting Tower Crane, Truck Loader Crane [Ref: 3730]. Graduates of the Crawler Crane, Mini Crane, Mobile Crane, Non-Slewing Articulated Crane, and Tower Crane strands may progress onto the New Zealand Certificate in Cranes (Advanced Crane Operation) (Level 5) [Ref: 3732]. Alternatively, graduates of all strands may progress to Leadership and Management qualifications in the Business arena.

Outcome statements for the qualification

Graduates of **this qualification** will be able to:

- Take responsibility for sole charge jobs, and interpret and utilise documentation to support organisational compliance, and health and safety objectives.
- Plan and document lifts of regular and irregular loads, using knowledge of cranes and equipment, hazards, and risk mitigation practices in the cranes industry.

Graduates of the **Advanced Dogman Crane Strand** will be able to:

- Calculate weights, centres of gravity, lifting points and equalizing methods, and use results to sling irregular loads using the appropriate lifting equipment.
- Apply knowledge of slinging methods to plan complex lifts.

Unit no:	Description	
31903	Lead a team during crane operations.	10 credits
31902	Demonstrate knowledge of health and safety management requirements for workers on site	5 credits
31904	Plan and document lifts of regular and irregular loads using multiple Cranes.	20 credits
3801	Prepare and sling complex loads for crane operations	25 credits
		60 credits

Graduates of the **Crawler Crane Strand will be able to:**

- Prepare for moving or tracking, configure, and position a crawler crane to operate within safe tolerances, stability requirements, and permits.
- Operate a crawler crane including lifting and placing regular and irregular loads, stationary and tracking within crane limits and in accordance with rating charts.

Unit no:	Description	
31903	Lead a team during crane operations.	10 credits
31902	Demonstrate knowledge of health and safety management requirements for workers on site	5 credits
31904	Plan and document lifts of regular and irregular loads using multiple Cranes.	20 credits
27676	Configure a lattice boom track crawler crane, and lift and place regular and irregular loads	25 credits
		60 credits

Graduates of the **Mini Crane Strand will be able to:**

- Prepare for transport and position a mini crane to operate within safe tolerances and stability requirements.
- Operate a mini crane with a hydraulic boom including lifting and placing regular and irregular loads, stationary and tracking within crane limits and in accordance with rating charts.

Unit no:	Description	
31903	Lead a team during crane operations.	10 credits
31902	Demonstrate knowledge of health and safety management requirements for workers on site	5 credits
31904	Plan and document lifts of regular and irregular loads using multiple Cranes.	20 credits
26505	Use a mini-crawler crane with outriggers to lift and place regular loads	20 credits
		55 credits

Graduates of the **Mobile Crane Strand will be able to:**

- Mobilise and demobilise, configure, and position a mobile crane on or off outriggers to operate within safe tolerances and permits.
- Operate a mobile crane including lifting and placing regular and irregular loads in accordance with rating charts.

Unit no:	Description	
31903	Lead a team during crane operations.	10credits
31902	Demonstrate knowledge of health and safety management requirements for workers on site	5credits
31904	Plan and document lifts of regular and irregular loads using multiple Cranes.	20credits
3795	Configure and position a mobile crane, and lift and place regular and irregular loads	25credits
		60 credits

Graduates of the **Non-slewing Articulated Crane Strand will be able to:**

- Prepare for travel, configure, and position a non-slewing crane to operate within safe tolerances and travel plan.
- Operate a non-slewing articulated crane including picking and carrying regular and irregular loads in accordance with rating charts.

Unit no:	Description	
31903	Lead a team during crane operations.	10 credits
31902	Demonstrate knowledge of health and safety management requirements for workers on site	5 credits
31904	Plan and document lifts of regular and irregular loads using multiple Cranes.	20 credits
24511	Configure a non-slewing articulated crane, and lift and place regular and irregular loads	15 credits
		50 credits

Graduates of the **Tower Crane** Strand will be able to:

- Access and egress a tower crane cab and place a tower crane into and out-of-service within risk mitigation strategies for the workplace and operating environment.
- Operate a tower crane including lifting and placing regular and irregular loads in accordance with rating charts, communicating with a dogman at a distance.

Unit no:	Description	
31903	Lead a team during crane operations.	10 credits
31902	Demonstrate knowledge of health and safety management requirements for workers on site	5 credits
31904	Plan and document lifts of regular and irregular loads using multiple Cranes.	20 credits
3794	Lift and place regular and irregular loads using a tower crane	15 credits
		50 credits

Important Notes

- ✔ Those workers in eligible employment who wish to undertake the qualification need to enrol with Skills.
- ✔ A Skills Account Manager or approved representative will sign in trainees into the qualification using a Skills Training Agreement and Programme schedule. Send all the requested documentation to cranes@skills.org.nz
- ✔ An approved Assessor with the relevant scope of work will be assigned to you by Skills. If you already have an Assessor you would need to make sure the Assessor is approved by Skills to deliver the Qualification. The approved Assessor will contact you to discuss the Training/Assessment plan.
- ✔ Employers will pay the Assessors directly for any Travel and Accommodation related costs.
- ✔ Trainees choose a strand, or specialised subject, when signing up for the qualification.
- ✔ The available funded strands are:
 - Advanced Dogman
 - Crawler crane
 - Mini Crawler crane
 - Mobile crane

- Non - slewing Articulated crane
- Tower Crane

- ✔ Within four weeks of signing up the trainee will receive learning and assessment materials. These will be sent to the trainee at the employer's address. This includes on the job assessments folder and the Logbook.
- ✔ All trainees need to complete the pre-requisite unit standard/qualification.
- ✔ The Assessor completes training and assessments, completes the credit reporting sheet, submits to Skills at credits@skills.org.nz and Skills reports the credits to NZQA.
- ✔ All the assessment resources are developed by Skills and are available on Skills Bank for Assessors.
- ✔ Skills awards the qualification, issues the trainee certificate and the Cranes ID card.
- ✔ There is no Recognition of Current Competence option for this qualification yet.

- ✔ **Additional Strands** - Once the **first** qualification is completed, trainees may register into an additional strand on that qualification.

Four of the strands are funded namely

- Advanced Dogman
- Crawler crane
- Mini Crawler crane
- Mobile crane

Two of the additional strands on L4 are Non funded and would need to be achieved through the casual credit process. These are

- Non - slewing Articulated crane
- Tower Crane

Process for funded additional strands

- ✔ Those workers in eligible employment who wish to undertake the qualification need to enrol with Skills.
- ✔ A Skills Account Manager or approved representative will sign in trainees into the qualification using a Skills Training Agreement and Programme schedule. Send all the requested documentation to cranes@skills.org.nz
- ✔ Contact a Skills Account Manager to sign up the trainee.
- ✔ An approved Assessor with the relevant scope of work will be assigned to you by Skills. If you already have an Assessor you would need to make sure the Assessor is approved by

Skills to deliver the Qualification.

- ✔ Employers will pay the Assessors directly for any Travel and Accommodation related costs.
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- ✔ All the assessment resources are developed by Skills and are available on Skills Bank for Assessors.
- ✔ Skills awards the qualification, issues the trainee certificate and the Cranes ID card.
- ✔ There is no Recognition of Current Competence option for this qualification yet.