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| **Crane 7** | **Operate a truck loader crane to lift and place regular loads** |

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| **Kaupae |** Level | 3 |
| **Whiwhinga |** Credit | 20 |
| **Whāinga |** Purpose | This skill standard recognises the skills to complete pre-start checks, configure the load, and move regular loads with a truck loader crane.  This skill standard aligns with the New Zealand Certificate in Cranes (Level 3) and may contribute to other programmes of study as appropriate. |
| **Whakaakoranga me mātua oti |**  Pre-requisites | Skill standard Crane 2 *Apply knowledge of slinging and communication to a lifting operations context is a co-requisite for this standard.* |

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

| **Hua o te ako |** Learning outcomes | **Paearu aromatawai |** Assessment criteria |
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| 1. Complete pre-lift activities for a truck loader crane. | 1. Pre-start checks are completed in accordance with manufacturer’s specifications and / or company requirements. |
| 1. Pre-start documentation is completed, and remedial action is taken for any defects. |
| 1. Potential hazards and risks are identified, including environmental conditions, and appropriate controls are implemented. |
| 1. Lift plan is created for regular loads. |
| 1. Configure the truck loader crane for regular loads. | 1. Crane is configured according to manufacturer’s specifications and local conditions. |
| 1. Move regular loads with a truck loader crane. | 1. Lifting requirements are completed safely. |
| 1. Crane is positioned, stowed, secured and prepared for road transport mode. |

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

Assessment specifications:

Pre-start checks should be carried out for both the carrier and crane for assessment.

Pre-start documentation may include logbook, inspection template.

Lift plan must include weight calculations for regular and irregular loads, centre of gravity, identified hazards/risks and controls, appropriate lifting equipment and configuration, person directing the lift and communication methods to be used, as appropriate.

Configuration includes assessment of ground conditions/slope, stabiliser (outrigger) positions, suitable footing.

Lifting requirements include assessing the load to determine it is within lifting capacity of the crane, positioning and levelling the truck (includes applying the park brake, using stabilisers, plates, packing), checking and setting up the crane for load slinging, selecting and checking lifting equipment, slinging the load, checking the load is free of attachments and restraints while maintaining load stability, assessing the lift, load, equipment and truck to ensure they are stable for the entire operation, lifting, moving and unloading/placing loads.

Lifting equipment may include pallet fork, grabs, rotator, slings, spreaders, hooks, clamps, magnets, suction plates, fixed man-cages, ropes, chains.

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

Assessment must involve a minimum of six verified lifts and two assessor observed lifts

***Ngā momo whiwhinga |*** *Grades available*

Achieved.

**Ihirangi waitohu |** Indicative content

* Hazards associated with truck loader cranes.
* Pre-start checks and documentation for truck loader cranes.
* Operation requirements for truck loader cranes.
* Lock out and tag out processes for truck loader cranes.
* Lifting equipment terminology for functions of critical components and equipment.
* Procedures for care and use of lifting equipment.
* Slope angle.

**Rauemi |** Resources

Crane Programme Guidance, available from [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz).

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

Crane Safety Manual: For Crane Operators & Dogmen (Crane Association of New Zealand), available from [www.cranes.org.nz](http://www.cranes.org.nz).

**Pārongo Whakaū Kounga |** Quality assurance information

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| **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 | 0025 |

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| **Hātepe |** Process | **Putanga |** Version | **Rā whakaputa |** ReviewDate | **Rā whakamutunga mō te aromatawai |** Last date for assessment |
| **Rēhitatanga |** Registration | 1 | dd mm 2024 | N/A |
| **Kōrero whakakapinga |** Replacement information | N/A | | |
| **Rā arotake |** Planned review date | 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.