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| **Crane 5** | **Operate a pendant or remote controlled overhead / gantry crane to lift and place regular loads safely.** |

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| **Kaupae |** Level | 3 |
| **Whiwhinga |** Credit | 15 |
| **Whāinga |** Purpose | This skill standard recognises the skills to complete pre-start checks and move regular loads with a radio remote or pendant controlled gantry 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-start checks of a radio remote or pendant controlled gantry 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. An appropriate plan is referred to. |
| 1. Configure the gantry crane and move regular loads. | 1. Crane is configured according to manufacturer’s specifications and local conditions. |
| 1. Lifting requirements are completed safely. |

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

Assessment specifications:

Pre-start checks include selecting lifting equipment and checking it for any issues, and hazard and crane check.

Pre-start documentation may include logbook, inspection template.

Lift plan must include weight calculations for regular 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.

Lifting requirements include safe slinging of loads, lifting, traveling, unloading/placing regular loads, parking the radio remote or pendant controlled gantry crane, and storage of equipment.

Communication methods refer to overhead crane hand signals, radio, and may include other methods as appropriate.

Lifting equipment may include but not limited to include wire slings, chains, magnets, synthetic slings, lifting beams, spreader bars.

*Overhead / Gantry crane* refers to a crane that is power-driven in both directions and generally has an overhead beam as a main part of its structure.

A plan must be referred to which may include a SWMS, SOP and or a lift plan.

*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

* Lifting requirements applicable to a radio remote or pendant controlled gantry crane.
* Hazards associated with radio remote or pendant controlled gantry crane operation.
* Lock out and tag out processes for a radio remote or pendant controlled gantry crane.
* Lifting equipment terminology for functions of critical components.
* Recognised communication methods for crane operations.
* Care and use of lifting equipment.
* Pre-start checks and documentation for gantry cranes.

**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.