



Australian Government

CPCCLTC4001 Licence to operate a tower crane

Release: 3

CPCCLTC4001 Licence to operate a tower crane

Modification History

- Release 3 Updated reference to general construction induction training program.
- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.
Minor edits to formatting.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCCLTC4001A Licence to operate a tower crane. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to safely operate a tower crane.

Tower crane work involves a boom crane or a jib crane (with horizontal or luffing jib) mounted on a demountable or permanent tower structure.

Self-erecting tower cranes are not included in this unit of competency.

Completion of the general construction induction training program, specified in the Safe Work Australia model Code of Practice: Construction Work, is required by anyone carrying out construction work. Achievement of CPCWHS1001 Prepare to work safely in the construction industry meets this requirement.

Competence in this unit does not in itself result in a licence. A licence is obtained after competence is assessed under applicable Commonwealth, state or territory work health and safety (WHS) regulations.

Pre-requisite Unit

Nil.

Unit Sector

Licensing

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

- 1 Plan task.
 - 1.1 Review task instructions, consult with relevant persons to seek clarification as required, and obtain relevant workplace information.
 - 1.2 Obtain and interpret information, including safe work method statements (SWMSs), required to ensure that activities are performed in compliance with workplace-specific and safe work requirements.
 - 1.3 Obtain and interpret information required to ensure that equipment inspection, use, maintenance and storage complies with manufacturer requirements.
 - 1.4 Identify workplace and task-specific hazards, including hazards associated with working at heights, and determine required risk controls and safety measures and equipment, including fall prevention and fall arrest equipment, as required.
 - 1.5 Identify methods of moving and placing tools, equipment and materials to minimise the risk of falling objects.
 - 1.6 Calculate load weight in consultation with licensed dogger.
 - 1.7 Consult with licensed dogger to confirm that load weight is within the rated capacity of the crane and the working load limit (WLL) of the lifting gear.
 - 1.8 Determine and inspect crane and load movement paths.
 - 1.9 Confirm implementation of and compliance with traffic management plan.
 - 1.10 Establish required communication methods with relevant persons.
 - 1.11 Establish and maintain communication with relevant persons to ensure lift plan and risk controls are communicated clearly, including any impact on other workplace activities.
- 2 Prepare for task.
 - 2.1 Check signs and labels to ensure visibility and legibility.
 - 2.2 Assess wind and other adverse weather conditions and determine whether their impact on the crane and loads is within the manufacturer requirements for safe operation.

- 2.3 Access crane safely.
 - 2.4 Test crane safety devices in accordance with workplace requirements.
 - 2.5 Carry out pre-start crane checks and report, record and take action on identified damage or defects, in accordance with safe work practices, workplace-specific procedures and policies, and manufacturer requirements.
 - 2.6 Check that crane logbook has been completed and signed, that it is correct for crane type and current compliance, and that any rectifications have been signed off.
 - 2.7 Start crane, carry out operational checks, check for abnormal noises, smoke or fumes and shut down, tag out, report and record identified abnormalities in accordance with safe work practices, workplace-specific procedures and policies, and manufacturer requirements.
- 3 Transfer load.
- 3.1 Position boom or jib and hook block over the load as directed by licensed dogger.
 - 3.2 Carry out test lift to allow for checks and adjustments to slinging to be made by licensed dogger.
 - 3.3 Under the direction of the licensed dogger, transfer loads using appropriate crane movements.
 - 3.4 Use radio and interpret hand and whistle signals to communicate with licensed dogger.
 - 3.5 Lower and land load, allowing lifting gear to be disconnected.
- 4 Shut down and secure crane.
- 4.1 Apply hoist, luffing, trolley and travel brakes.
 - 4.2 Shut down crane and place in weather-vane position in accordance with manufacturer requirements.
 - 4.3 Carry out routine shutdown checks, and secure crane and equipment, including cabin, against unauthorised access.
 - 4.4 Exit the crane safely.

- 4.5 Report and record any damage or defects.

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to CPCCLTC4001A Licence to operate a tower crane.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>