



Australian Government

CPCCLTC4002 Licence to operate a self-erecting tower crane

Release: 2

CPCCLTC4002 Licence to operate a self-erecting tower crane

Modification History

Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.

Missing text in Element and Performance Criteria Point 2 corrected.

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCCLTC4002A Licence to operate a self-erecting tower crane. Updated to meet the Standards for Training Packages 2012.

Application

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

Self-erecting cranes are common on small to medium-sized construction sites. They usually have a horizontal boom that folds out during erection and are usually operated by remote control rather than from a cabin. For licencing purposes, self-erecting tower cranes are a separate category to other types of tower crane.

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 *CPCCWHS1001 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

Licencing

Elements and Performance Criteria

Elements describe the Performance criteria describe what needs to be done to

- essential outcomes. 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, where relevant, hazards associated with working at heights, and determine required risk controls and safety measures and equipment.
 - 1.5 Calculate load weight in consultation with relevant persons.
 - 1.6 Consult with relevant persons to confirm that load weight is within the rated capacity of the crane and the working load limit (WLL) of the lifting gear.
 - 1.7 Determine and inspect crane and load movement paths.
 - 1.8 Confirm implementation of and compliance with traffic management plan.
 - 1.9 Establish required communication methods with relevant persons.
 - 1.10 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 Safely access the area from which the crane will be operated.

- 2.4 Test crane safety devices in accordance with workplace requirements.
 - 2.5 Carry out pre-start crane checks and shut down, tag out, report and record 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 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 a 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, trolley and travel brakes.
 - 4.2 Shut down crane in accordance with manufacturer requirements.
 - 4.3 Carry out routine shut-down checks, and secure crane and equipment against unauthorised access.
 - 4.4 Safely exit the area from which the crane has been operated.

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 CPCCLTC4002A Licence to operate a self-erecting 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>