

Australian Government

Assessment Requirements for CPCCLTC4002 Licence to operate a self-erecting tower crane

Release: 2

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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.

Performance Evidence

To demonstrate competency in this unit, a candidate must meet the elements and performance criteria by safely operating a self-erecting tower crane with a maximum rated capacity of at least 2000 kg to move at least four loads of different shapes, sizes and weights in conjunction with a licensed dogger slinging and guiding loads.

For all loads, the candidate must:

- check relevant workplace information, including safe work method statements (SWMSs) and equipment service and maintenance records and checklists
- perform all activities in compliance with safe work practices and workplace-specific procedures and policies
- · check, use, maintain and store equipment in compliance with manufacturer requirements
- identify hazards and implement appropriate risk controls and safety measures and equipment
- · confirm that load weight is within the rated capacity of the crane
- locate and interpret signs and labels
- check and use safety devices
- lift and move loads using the main hook through an obstacle course, including a 90-degree minimum slew, using all crane operational controls:
 - trolleying levers
 - hoisting and lowering levers
 - slewing levers
- use two-way radio and interpret hand and whistle signals to communicate with licensed dogger
- implement shutdown procedures.

Movements must include:

- luffing, as applicable, or trolleying
- slewing
- hoisting and lowering.

Loads must include:

- a load of more than 50% of the configured capacity of the crane
- stillage containing at least ten scaffolding standards or loose steel pipes of 200 kg or more that requires a licensed dogger to sling
- an uneven load that requires slinging
- a round load with a minimum diameter of 300 mm and minimum length of 3 m that requires slinging.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- safe work requirements for operating a self-erecting tower crane under Australian Standards, and Commonwealth and state or territory work health and safety (WHS) legislation and codes of practice
- workplace information, including legislative requirements covered by:
 - SWMSs
 - permits and certifications
 - information about equipment:
 - service and maintenance checklists and records
 - manufacturer specifications and manuals
 - workplace procedures, including emergency plans and incident reporting
- hazard identification and mitigation strategies, including the hierarchy of control:
 - elimination
 - substitution
 - isolation
 - engineering controls
 - administrative controls
 - use of personal protective equipment (PPE)
- hazards commonly encountered in self-erecting tower crane operations:
 - overhead and underground hazards, including powerlines
 - other cranes and booms
 - other plant
 - obstructions
 - combustible substances, including fuel
 - electrical hazards
 - insufficient lighting

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- traffic
- wind and other adverse weather conditions
- pedestrian traffic
- work required at heights
- risk controls and safety measures and equipment:
 - safety tags on electrical switches and isolators
 - insulated powerlines
 - safety observer
 - exclusion zone
 - disconnected power
 - traffic barricades and controls
 - pedestrian controls
 - movement of obstructions
 - evacuation procedures
 - adequate illumination
 - firefighting equipment
 - appropriate earthing for the conditions such as static electricity build up due to electromagnetic radiation (EMR) or wind
 - fall prevention and fall arrest equipment
- PPE:
 - hard hat
 - safety boots
 - gloves
 - high-visibility clothing
 - breathing, hearing, sight, skin and sun protection
- hand and whistle communication signals:
 - stop
 - hoist up and down
 - trolley in and out
 - slew left and right
- signs and labels:
 - crane data plates and labels
 - load charts
 - crane decals
 - operational control lever labels
- self-erecting tower crane safety devices:
 - audible and visual devices
 - aviation lights
 - illumination
 - motion limits

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- overload limits
- radios
- anti-collision devices
- crane controls:
 - hoisting and lowering levers
 - slewing levers
 - slew brake and locks
 - trolleying levers
 - emergency stop control
- crane movements:
 - slewing
 - hoisting and lowering
 - trolleying
- multiple crane communication systems
- processes for responding to unplanned and unsafe situations, including equipment failure or loss of control
- emergency and evacuation procedures, including fire procedures
- shutdown procedures:
 - raise boom or jib to shut-down position
 - park trolley in shut-down position
 - retract hoist rope and hook block
 - place in weather vane mode
 - turn off and secure remote to prevent unauthorised access
 - isolate electrical supply
 - lock and secure against access
- self-erecting tower crane characteristics, capabilities and operation to suit loads of different shapes, sizes and weights
- use and interpretation of crane manufacturer specifications, including load charts to enable the crane to be configured within its rated capacity.

Assessment Conditions

Assessors must meet the requirements for assessors outlined in the Standards for Registered Training Organisations.

Only assessors who are accredited in the licence class by the appropriate WHS regulator for the jurisdiction where the licence is obtained are permitted to conduct the final high-risk work licence assessment. The final licence assessment will only be undertaken with candidates who have completed training and been formally assessed against all elements in this unit.

Assessment must be conducted in the workplace or in a simulated workplace environment using realistic workplace conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations, including: Assessment Requirements for CPCCLT C4002 Licence to operate a self-erecting tower craneDate this document was generated: 8 December 2022

- the use of full-scale, industry-standard equipment, not simulators
- performance of tasks within the timelines expected in a workplace.

Candidates must have access to:

- a self-erecting tower crane with a maximum rated capacity of at least 2000 kg, which is in a safe and compliant condition
- lifting and other equipment required for self-erecting tower crane operations
- risk controls and safety measures and equipment
- communication equipment, including whistle and two-way radios
- loads as specified in the Performance Evidence
- a licensed dogger to sling and direct loads
- workplace information and records, including:
 - equipment and maintenance checklists
 - record system for service and maintenance history
 - incident reports
 - workplace procedures, including emergency plans
 - equipment manuals and manufacturer specifications.

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