



Australian Government

CPCCLRG3002 Licence to perform rigging intermediate level

Release: 3

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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 8.0.
Changes to the Application of the unit and Performance Criteria 4.3.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCCLRG3002A Licence to perform rigging intermediate level. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to safely perform intermediate rigging work.

Riggers use mechanical load shifting equipment and associated gear to move, place or secure loads, including plant, equipment or members of a building or structure. Riggers ensure the stability of those members and set up and dismantle cranes and hoists.

This unit includes rigging work involving:

- hoists with jibs and self-climbing hoists
- cranes, conveyors, dredges and excavators
- tilt slabs
- demolition of structures or plant
- multiple lifts.

Rigging work is undertaken in construction and other industries where load shifting equipment is used to move, place or secure loads.

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.

This unit has a pre-requisite requirement. This requirement may be met by either the successful completion of the unit *CPCCLRG3001 Licence to perform rigging basic level* or holding a valid licence for basic rigging.

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

CPCCLRG3001 Licence to perform rigging basic level

Unit Sector

Licencing

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 and determine required risk controls and safety measures and equipment, including signs and barricades, personal protective equipment (PPE), and fall prevention and fall arrest equipment. |
| | 1.5 Identify methods of moving and placing tools, equipment and materials to minimise the risk of falling objects, to avoid inappropriate carrying on ladders and to minimise hazardous manual tasks. |
| | 1.6 Identify required rigging equipment and associated gear. |
| | 1.7 Calculate loads associated with mechanical load shifting equipment and associated gear required to erect and dismantle structures and plant. |
| | 1.8 Establish required communication methods with relevant persons. |
| 2 Select and inspect | 2.1 Select risk controls and equipment, including fall |

- equipment.
- 2.2 Select and check PPE.
- 2.3 Select rigging equipment and associated gear, inspect for defects, and isolate, tag out, report and record defective items.
- 2.4 Select communication equipment and check that it is working and fit for use.
- 3 Set up task.
- 3.1 Establish and maintain communication with relevant persons to ensure task plan and risk controls are communicated clearly, including any impact on other workplace activities.
- 3.2 Ensure risk controls and safety measures and equipment have been put in place, including the fitting, adjusting and anchoring of fall protection equipment.
- 3.3 Consult with relevant persons to ensure that ground and foundation have been assessed as suitable for task.
- 3.4 Consult with relevant persons to ensure that the structure has been assessed as suitable for load bearing task.
- 4 Undertake intermediate rigging activities.
- 4.1 Erect and dismantle all structures and operate plant while maintaining stability, in accordance with workplace and manufacturer requirements.
- 4.2 Conduct a multiple-crane lift.
- 4.3 Erect and dismantle one of the following: a tower crane section or a crane lattice boom section, or a fly jib on a mobile slewing or a non-guyed tower crane.
- 4.4 Lift and install a series of tilt-up concrete panels.
- 4.5 Remove a concrete-encased structural steel column and beam.
- 5 Complete task.
- 5.1 Remove excess materials from work area.

- 5.2 Inspect structures, plant, equipment and gear for defects, and isolate, tag out and report defective items.
- 5.3 Store plant, equipment and gear in accordance with workplace requirements.
- 5.4 Remove risk controls and safety measures and equipment.

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 CPCCLRG3002A Licence to perform rigging intermediate level.

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>

Assessment Requirements for CPCCLRG3002 Licence to perform rigging intermediate level

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Performance Evidence

To demonstrate competency in this unit, a candidate must meet the elements and performance criteria by safely performing rigging tasks at an intermediate level, including:

- undertaking a multiple-crane lift of a load of at least 1 tonne and at least 4 m long
- erect and dismantle one of the following:
 - a tower crane section
 - crane lattice boom section
 - a fly jib on a mobile slewing
 - a non-guyed tower crane.
- installing and removing a three-panel structure, with each panel being at least 4 m high, at least 2 m wide and at least 1.5 tonnes
- using the following bends and hitches:
 - round turn
 - two half-hitches.

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 workplace-specific, safe work and manufacturer requirements
- identify hazards and use appropriate risk controls and safety measures and equipment
- use the following associated gear:
 - tag lines
 - flexible steel wire rope (FSWR)

- chains
- wire and synthetic slings
- shackles
- wedge sockets
- eye bolts
- rope grips
- turnbuckles
- chain blocks
- sheaves
- spreader bars or lifting beams
- snatch blocks
- lifting clutches
- safely erect and dismantle structures and plant.

Knowledge Evidence

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

- safe work requirements for rigging under Australian Standards, and Commonwealth and state or territory work health and safety (WHS) legislation, regulations, standards 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 and supplier 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 rigging intermediate level:
 - instability of work areas
 - damaged or poor-quality equipment
 - overhead and underground hazards
 - electrical items
 - mobile plant

- insufficient lighting
- wind and other adverse weather conditions
- traffic
- pedestrian traffic
- hazardous manual tasks
- falling objects
- falls from heights
- minimum clearance distance from powerlines or electrical equipment specific to mobile plant and scaffolding as determined by relevant state or territory authority or electrical supply authority
- risk controls and equipment:
 - traffic barricades and control
 - pedestrian barricades
 - PPE
 - adequate illumination
 - safety structures and screens
 - exclusion zones
- inspection, handling and storage of rigging structures and equipment, associated gear, and other required equipment:
 - rigging structures and equipment:
 - concrete tilt-up panels
 - non-guyed light towers
 - scaffolds
 - elevated work platforms
 - personnel box
 - cantilevered crane loading platforms
 - mast climbers
 - safety screens and shutters
 - cranes
 - associated gear:
 - power and manually operated lifting gear
 - lifting clutches
 - snatch blocks
 - tag lines
 - FSWR
 - chains
 - wire and synthetic slings
 - shackles
 - terminations
 - wedge sockets

- eye bolts
- beam clamps
- pipe clamps
- plate clamps
- wire rope grips
- turnbuckles
- rigging screws
- chain blocks
- lever blocks
- lever-action winches
- sheaves
- spreader bars
- lifting beams
- jacks
- levers
- skates
- wedges
- rollers
- beam trolley
- safety equipment:
 - safety harness
 - energy absorber
 - lanyard
 - inertia reel
 - static safety lines
- PPE:
 - hard hat
 - safety boots
 - gloves
 - high-visibility clothing
 - breathing, hearing, sight, skin and sun protection
- communication equipment:
 - two-way radios
 - whistles
- relevant persons:
 - doggers
 - riggers
 - load-shifting plant operators
 - engineers
 - supervisors

- ground and foundation suitability:
 - rough, uneven ground
 - backfilled ground
 - soft soils
 - hard compacted soil
 - rock
 - bitumen
 - concrete
 - suspended concrete floors
 - building roofs
 - landings
 - ground bearing pressure
- mathematical processes for estimating and measuring forces and loads for intermediate rigging
- techniques for making temporary connections by tying bends and hitches:
 - round turn
 - two half-hitches.

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:

- the use of full-scale, industry-standard equipment, not simulators
- performance of tasks within the timelines expected in a workplace
- participation of the candidate in activities within a team of three to five members.

Candidates must have access to:

- all personnel and equipment required to perform the tasks specified in the Performance Evidence
- workplace information and records, including:
 - equipment and maintenance checklists
 - record system for service and maintenance history
 - incident reports
 - workplace procedures, including SWMSs and emergency plans
 - equipment manuals and manufacturer specifications

- relevant plant supplier information.

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