



Australian Government

CPCCLRG4001 Licence to perform rigging advanced 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.
Change to the Application of the unit.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCCLRG4001A Licence to perform rigging advanced level. Updated to meet the Standards for Training Packages 2012

Application

This unit specifies the skills and knowledge required to safely perform advanced 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 applies to rigging work involving:

- gin poles and shear legs
- flying foxes and cable ways
- guyed derricks and structures
- suspended scaffolds and fabricated hung scaffolds.

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 *CPCCLRG3002 Licence to perform rigging intermediate level* or holding a valid licence for intermediate 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

CPCCLRG3002 Licence to perform rigging intermediate 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.

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|----------------------|--|
| 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 communication methods with associated personnel. |
| 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 advanced rigging activities.
- 4.1 Erect, operate and dismantle all structures and plant while maintaining stability, in accordance with workplace and manufacturer requirements.
- 4.2 Erect gin poles or sheer legs, operate winch to move load, and dismantle.
- 4.3 Erect flying fox or cable way, operate to move a load, and dismantle.
- 4.4 Erect guyed derrick, operate to move a load, and dismantle.
- 4.5 Erect, operate and dismantle suspended scaffold.
- 4.6 Install and remove fabricated hung scaffold.

- 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 safety measures and equipment.
 - 5.5 Complete handover certificates, and attach scaffolding tags for suspended scaffold and hung scaffold.

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 CPCCLRG4001A Licence to perform rigging advanced 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 CPCCLRG4001 Licence to perform rigging advanced level

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Performance Evidence

To demonstrate competency in this unit, a candidate must meet the elements and performance criteria by erecting, using and dismantling the following:

- gin pole or shear leg of a height of 8 m or more and a working load limit of 400 kg or more. The winch must be powered with at least one diversion sheave
- a flying fox or cable way of a height of at least 4 m and a span distance of at least 10 m and able to support at least 200 kg - the rope span may be supported from fixed anchorages, poles, or both
- guyed derricks and structures of a minimum height of 8 m
- a suspended scaffold of a height of at least 4 m with a minimum capacity of at least 200 kg attached by a dual needle system using counterweights and powered winch
- a fabricated hung scaffold of at least 4 m height and 3.4 m length, and consisting of one continuous platform of heavy-duty capacity.

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, including the completion of required handover certificates
- identify hazards and use appropriate risk controls and safety measures and equipment
- use all the associated gear listed under Knowledge Evidence
- safely erect, use 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 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 advanced 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:
 - hard hat

- safety boots
- gloves
- high-visibility clothing
- breathing, hearing, sight, skin and sun protection
- adequate illumination
- safety structures and screens
- inspection, handling and storage of rigging structures and equipment, associated gear, and other required equipment:
 - rigging structures and equipment:
 - gin poles
 - flying foxes
 - shear legs
 - cable ways
 - guyed derricks
 - suspended scaffolds
 - fabricated hung scaffolds
 - associated gear:
 - power and manually operated lifting gear
 - tag lines
 - flexible steel wire rope (FSWR)
 - chains
 - wire and synthetic slings
 - shackles
 - terminations
 - eye bolts
 - beam clamps
 - rope grips
 - turnbuckles
 - rigging screws
 - lever blocks
 - lever-action winches
 - sheaves
 - scaffold and rigging tools
 - jacks
 - levers
 - skates
 - wedges
 - rollers
 - girder trolley
 - safety equipment:

- safety harness
- energy absorber
- lanyard
- inertia reel
- static safety lines
- communication equipment:
 - two-way radios
 - whistles
- associated personnel:
 - doggers
 - riggers
 - crane 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
- supporting beams or structures load bearing capacity
- mathematical processes for calculating loads for advanced rigging.

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.

Links

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