Australian Government

Assessment Requirements for CPCCLRG3001 Licence to perform rigging basic 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 CPCCLRG3001A Licence to perform rigging basic level. 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 performing rigging tasks at a basic level, including:

- erecting and dismantling a portal frame of structural steel consisting of columns (150 UC 29.8 kg/m), beams (minimum 200 UB 29.8 kg/m) and braces in accordance with engineering detail. It must include:
  - appropriate structural bolts, nuts, washers, purlins and girts
  - beams installed at a height of at least 4 m
  - suitable access and working platform (e.g. elevated work platform, mobile scaffold, scissor lift, portable industrial grade ladder)

It must be packed and plumbed and include temporary bracing during erection and dismantling. Hand tools and working at height safety equipment, including harness, lanyard and inertia reel, must be used

- installing and removing a series of three retaining wall panels, each panel being not less than 4 m high by 2 m wide and not less than 1.5 tonnes. One panel must be set at a 90-degree angle to one of the other panels - candidates must identify any defective lifting equipment
- installing and removing a safety (catch) net with minimum dimensions of 3 m x 4 m in accordance with manufacturer specification and engineering detail on portal frame - candidates must identify any defective nets
- installing, using and removing a static line at least 2.1 m above the beams on portal frame, in accordance with manufacturer specifications and engineering detail – candidates must identify any defective static lines and associated equipment

- installing and removing a cantilevered materials hoist (1 or 2 barrow) or a mast climbing work platform of at least three mast sections and tied in accordance with specifications
- installing and dismantling a perimeter safety screen or shutter of at least 4 m x 2 m in accordance with manufacturer specifications and engineering detail
- installing and dismantling a cantilevered crane loading platform at a height of at least 4 m with secure gates and handrails in accordance with manufacturer specifications and engineering detail
- setting up and operating a powered winch to move a load of at least 1 tonne
- using the following splice and hitch techniques:
  - eye splice
  - becket hitch.

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
- use the following associated gear:
  - beam clamps or pipe clamps or plate clamps
  - tag lines
  - flexible steel wire rope (FSWR)
  - chains
  - wire and synthetic slings
  - shackles
  - wedge sockets
  - eye bolts
  - rope grips
  - turnbuckles
  - chain blocks
  - sheave blocks
  - spreader bars or lifting beam
  - levers/podgers
  - skates/rollers
  - wedges
  - props
  - powered winches
  - snatch blocks
  - wire rope winches
  - lever pull (e.g. come-alongs)
- identify hazards and use appropriate risk controls and safety measures and equipment
- 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 basic 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 and other structures as determined by relevant state or territory authority or electrical supply authority
- risk controls and equipment:
  - traffic control
  - pedestrian barricades
  - PPE
  - 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:
        - elevated work platforms
        - cantilevered crane loading platforms
        - portal frames
        - hoists
        - pre-cast concrete members
        - mast climbing work platform
        - safety screens and shutters
        - safety nets
    - associated gear:
        - power and manually operated lifting gear
        - lifting clutches
        - tag lines
        - FSWR
        - chains
        - wire and synthetic slings
        - shackles
        - terminations
        - wedge sockets
        - eye bolts
        - beam clamps
        - pipe clamps
        - plate clamps
        - rope grips
        - turnbuckles
        - chain blocks
        - lever blocks
        - lever-action winches
        - sheaves
        - spreader bars
        - lifting beams
        - jacks
        - levers
        - skates
        - wedges
        - rollers
        - beam trolley

    - props
  - safety equipment:
    - full-body safety harness
    - energy absorber
    - lanyard
    - inertia reel (fall arrester)
    - 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
  - 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
- mathematical processes for estimating and measuring loads for basic rigging
- techniques for making temporary connections.

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

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