



Australian Government

CPCCRI3013 Perform intermediate rigging

Release: 3

CPCCR13013 Perform intermediate rigging

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 5.1.
Correction to Unit Mapping.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCCR13013A Perform intermediate rigging.
Unit mapping corrected. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to use intermediate rigging techniques to move and position loads including cranes and precast tilt-up slabs. It includes load distribution and calculation.

It applies to workers who perform rigging duties and who would be expected to take responsibility for organising and completing these tasks with a high degree of self direction.

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.

Licensing, legislative, regulatory or certification requirements apply to this unit of competency in some states and territories. For further information, check with the relevant regulatory authority.

Pre-requisite Unit

CPCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

Unit Sector

Construction

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 and prepare to perform intermediate rigging. | 1.1 Interpret work instructions and associated documentation and clarify requirements with relevant persons. |
| | 1.2 Plan all work to comply with relevant legislation, regulations, standards, codes, work health and safety, environmental and workplace requirements. |
| | 1.3 Erect required safety signage and barricades and select and fit personal protective equipment (PPE) appropriate for work activities. |
| 2 Select and check intermediate rigging equipment. | 2.1 Select resources, materials and equipment in accordance with load charts, and inspect for compliance with work instructions. |
| | 2.2 Inspect lifting equipment in accordance with manufacturer and workplace requirements. |
| | 2.3 Label, reject and dispose of any lifting equipment identified as inconsistent with manufacturer requirements, to prevent its use in any circumstance. |
| | 2.4 Determine and select elevated work platforms and other means of mechanical access systems as specified. |
| | 2.5 Install fall arrest equipment with ground level installation. |
| | 2.6 Determine and select personnel cartage systems. |
| 3 Connect intermediate rigging equipment. | 3.1 Calculate and confirm load mass and load distribution. |
| | 3.2 Sling loads to ensure encapsulation of whole load. |
| | 3.3 Sling part loads to ensure full encapsulation of a part load. |
| | 3.4 Sling whole or part loads to protect loads and secure to prevent uncontrolled movement. |
| | 3.5 Attach load steerage lines and use to prevent unnecessary |

load movement.

- | | | |
|---|-----|--|
| 4 Move and position loads using intermediate rigging equipment. | 4.1 | Determine load lifting/shifting order to minimise necessity for double lifts. |
| | 4.2 | Connect lifting/shifting equipment to load. |
| | 4.3 | Perform test lift/shift to ensure lift suitability. |
| | 4.4 | Move load safely to required destination and secure in position in accordance with work instructions and workplace requirements. |
| | 4.5 | Use standard communication signals to coordinate safe movement of load. |
| 5 Remove intermediate rigging equipment. | 5.1 | Dismantle lifting/moving equipment and packing, return to resting position and inspect for wear. |
| | 5.2 | Complete logbook and site records in accordance with workplace requirements. |
| 6 Clean up. | 6.1 | Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements. |
| | 6.2 | Clean, check, maintain and store tools and equipment in accordance with manufacturer and workplace requirements. |

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 CPCCR13013A Perform intermediate rigging.

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 CPCCR3013 Perform intermediate rigging

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 5.1.
Correction to Unit Mapping.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCCR3013A Perform intermediate rigging.
Unit mapping corrected. 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 and perform intermediate rigging to move and position two loads involving:

- erecting and dismantling at least one lattice boom crane and fly using correct rigging and slinging techniques
- erecting a multi-point precast tilt-up slab of at least ten tonnes with correct rigging, slinging and de-rigging techniques, including determining lifting points, temporary supports and permanent fixing points from drawings.

Candidates must apply both single and dual lifting techniques.

Knowledge Evidence

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

- workplace and regulatory requirements for performing intermediate rigging under applicable Commonwealth, state or territory work health and safety (WHS) legislation and codes of practice:
 - job safety and environmental analyses (JSEAs)
 - safe work method statements (SWMSs)
 - safety data sheets (SDSs)
 - safety manuals and instructions for plant, tools and equipment
 - signage and barricades
 - personal protective equipment (PPE)
 - working at heights requirements

- environmental and worksite safety plans
- reporting problems
- scope of work for performing intermediate rigging:
 - calculations:
 - load charts
 - fleet angles
 - diverter sheaves
 - lead loads
 - head loads
 - load angle factors
 - multiple fall
 - load share distribution
 - precast compliance charts
 - safe working loads
 - load slinging methods:
 - straight sling
 - adjustable sling
 - reeved sling
 - inclined sling
 - using lifting techniques, including single and dual lifts
- types, characteristics and limitations of tools and equipment required for performing intermediate rigging:
 - chain slings
 - flexible steel wire rope (FSWR) slings
 - natural or synthetic fibre slings
 - lifting devices:
 - shackles
 - turn buckles
 - jacks
 - chain winches
 - hand-operated creeper winches
 - chain blocks
 - pulley blocks
 - come-alongs
 - air winches
 - trolleys
 - eye bolts
 - rigging screws
 - lifting lugs
 - lifting clutches

- snatch blocks
- load shifting equipment:
 - skates
 - hydraulic jacks
 - winches
 - rails
- personnel cartage systems, including man boxes and elevated work platforms
- requirements for using tools, equipment and materials for performing advanced structural steel erection:
 - safe operating procedures
 - operational, maintenance and basic diagnostic procedures
 - workplace and equipment safety requirements
- signalling methods and communications
- processes for completing logbooks and site records
- requirements for cleaning up work area, maintaining and storing plant, tools, equipment and materials, and for environmentally friendly waste management.

Assessment Conditions

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

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to:

- industry-standard equipment required to perform the tasks specified in the Performance Evidence
- appropriate workplace information and records, including policies, procedures and legislative requirements.

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>