



Australian Government

Assessment Requirements for CPCCR13015 Perform advanced tilt-up slab erection

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 5.1.
Minor edits to formatting.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCCR13015A Perform advanced tilt-up slab erection. 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 performing advanced tilt-up slab erection to erect:

- one multi-point precast tilt-up slab of at least 10 tonnes
- one cast *in situ* tilt-up slab of at least 10 tonnes.

Each task must be performed using correct rigging, slinging and de-rigging techniques, including:

- determining lifting points, temporary supports and permanent fixing points from panel erection drawings by following the lift plan
- positioning and bracing the slab
- safe unloading from the truck
- rotating panel from one plane to another
- incorporating at least two bracing techniques.

Knowledge Evidence

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

- workplace and regulatory requirements for performing advanced tilt-up slab erection 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 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 advanced tilt-up slab erection:
 - calculations:
 - load charts
 - fleet angles
 - diverter sheaves
 - lead loads
 - head loads
 - load angle factors
 - multiple fall
 - load share
 - precast compliance charts
 - safe working loads
 - load slinging methods:
 - straight sling
 - adjustable sling
 - reeved sling
 - inclined sling
 - advanced lifting techniques:
 - rotation (turning panel from one plane to another)
 - standard lift from a truck
 - lift from flat on ground
 - tilt-up slabs:
 - prefabricated and cast *in situ* tilt-up slabs
 - slabs with cast-in lifting and/or bracing inserts
 - bracing of tilt-up slabs:
 - lateral bracing
 - end bracing
 - main bracing
 - knee bracing
 - deadman bracing
- types, characteristics and limitations of tools, equipment and materials required for performing advanced tilt-up slab erection:
 - chain slings
 - flexible steel wire rope (FSWR) slings
 - air winches

- chain blocks
- chain winches
- come-alongs
- drifts
- eye bolts
- hammers
- hand operated creeper winches
- jacks
- podgers
- pulley blocks
- shackles
- shifting spanners
- sledge hammers
- spanners
- spirit levels and automatic levels
- tape measures
- trolleys
- turn buckles
- wedges
- wrenches
- requirements for use of tools, equipment and materials for performing advanced tilt-up slab 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 used 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>