



Australian Government

Assessment Requirements for CPCCLBM3001 Licence to operate a concrete placing boom

Release: 1

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Modification History

Release 1.

This version first released with CPC Construction, Plumbing and Services Training Package Version 1

Revised unit of competency replacing superseded non-equivalent CPCCLBM3001A Licence to operate a concrete placing boom.

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. The person must also be able to provide evidence of the ability to locate, set up, operate and shut down a concrete placing boom for two different concrete placements:

- one of which must involve delivery of concrete where the placement area is not visible to the boom operator and radio communication with the hose hand is essential
- using two types of concrete with different slumps.

For each concrete placement, the person must provide evidence of the ability to:

- comply with commonwealth, state and territory health and safety legislation and regulations
- plan and prepare for concrete placement work, including:
 - conducting a risk assessment of the workplace
 - selecting risk controls according to the hierarchy of control for positioning and safely operating the concrete placing boom
- check location suitability and then position and stabilise the concrete placing boom using outriggers and packing according to plant operation and workplace procedures
- conduct pre-operational checks of plant, boom, pump, safety devices, and control panels according to plant operation and workplace procedures
- operate and control the concrete placing boom, including all functions to the maximum extension, in communication with workplace personnel to deliver concrete as required and according to plant operation and workplace procedures
- monitor concrete supply and pump and boom operation to ensure safe concrete delivery according to workplace procedures
- identify faults and problems with concrete placing boom, including emergencies, and apply appropriate strategies in response according to manufacturer recommendations and workplace procedures
- demonstrate strategies in place for managing the following emergencies that may arise during concrete placement:

- contact with electric lines
- failure or loss of control of the boom
- instability of concrete placing unit
- pipe or hose blockage or blow-out
- failure of equipment, including hydraulic system
- severe environmental conditions, including wind, lightning and storms
- shut down concrete placing boom in line with established safety procedures:
 - idle engine to stabilise temperature
 - disengage pump
 - turn off engine
 - remove key from ignition
 - secure plant according to manufacturer specifications
 - secure boom according to relevant manufacturer specifications and workplace procedures.

Knowledge Evidence

A person demonstrating competency in this unit must be able to demonstrate knowledge of:

- commonwealth, state and territory health and safety legislation and approved codes of practice relevant to operating a concrete placing boom
- Australian and industry standards relevant to operating a concrete placing boom
- characteristics and properties of concrete required for different elements of buildings
- concreting placing procedures, which must include requirements for priming material, volume of concrete required, and consistency and amount of concrete in the delivery line
- features and functions of concrete delivery system components:
 - adaptors
 - boom
 - couplings
 - hose
 - lines
 - locking pins, including R clips and lynch pins
- hand signals used in concrete placement operations
- manufacturer specifications, site and workplace procedures relevant to operating concrete placing booms
- essential safety procedures for ensuring stability of concrete placing boom:
 - deploying outriggers according to manufacturer specifications
 - establishing correct size plates or packing
 - correctly positioning plates or packing
 - checking plant is level and well-supported
- procedures for maintaining workplace records and information
- protocols for using mobile communication devices on construction workplaces

- routine problems, hazards and emergencies that could arise during concrete placing boom operations and strategies for managing them, including application of the hierarchy of controls
- types of ground and ground conditions at workplace that are:
 - suitable for set-up and operation of concrete placing boom
 - unsuitable for set-up and operation of concrete placing boom.

Assessment Conditions

Assessment must be conducted in the English language.

Assessment of performance must be undertaken in the workplace and/or under realistic workplace conditions that typically reflect:

- the use of full-scale equipment,
- performing tasks/activities within the same timelines expected in the workplace, and
- standard and authorised work practices, safety requirements and environmental constraints.

All practical assessment must be undertaken on a mobile concrete placing boom.

The use of simulators in the assessment of this unit of competency is not acceptable.

Accredited assessors are responsible for ensuring that candidates have access to operational workplaces with personnel to undertake hose hand and concreting responsibilities, and access to:

- equipment in safe operating condition:
 - mobile communication devices, including two-way radios
 - concrete placing boom and associated controls and equipment, including outriggers and packing
 - personal protective equipment
 - plant safety devices with the following features:
 - audible and visual reversing devices
 - horns and sirens
 - lights
 - safety interlocks
 - tools and equipment required for pre-start and post-operational equipment checking, cleaning and maintenance
- materials:
 - concrete
 - workplace documentation to be completed
- contingencies:
 - other plant, including cranes, working at the workplace
- specifications:

- manufacturer specifications
- work instructions
- workplace procedures
- specifications for concrete delivery
- relevant workplace technical reports and drawings
- physical conditions:
 - suitable terrain and weather for concrete placement operations.

Assessor requirements

As a minimum assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations (RTOs) current at the time of assessment.

In addition, assessment must be conducted by an assessor accredited for this high risk work (HRW) licence class in the commonwealth, state or territory jurisdiction where the licence application will be made (i.e. an accredited assessor authorised by a commonwealth, state or territory WHS/OHS regulator).

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>