



Australian Government

CPCCON3052 Conduct concrete boom delivery operations

Release: 2

CPCCON3052 Conduct concrete boom delivery operations

Modification History

Release 2 Updated reference to general construction induction training program.

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCCCO3052 Conduct concrete boom delivery operations

Application

This unit of competency specifies the skills and knowledge required to support construction projects by conducting concrete boom delivery operations using a vehicle-borne pumping system. It covers systems with a minimum of two boom stages.

It includes:

- conducting operational checks
- safe and effective operation of the vehicle and pumping system
- safe establishment, use and monitoring of the boom distribution system
- conducting operator maintenance and work finalisation activities.

This unit of competency supports the role of those who deliver concrete placing booms to residential, commercial or civil construction sites, 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 by the model Code of Practice for Construction Work is required for any person who is to carry 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

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

Unit Sector

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 and prepare to conduct concrete boom delivery operations. | 1.1 Interpret work instructions, plans and specifications for concrete boom delivery operations 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 Select and fit personal protective equipment appropriate for work activities. |
| | 1.4 Inspect work site, assess hazards and apply risk controls, including required signage and barricades. |
| | 1.5 Select plant, tools and equipment, check for serviceability and rectify or report any faults. |
| 2 Conduct concrete boom delivery system pre-operational checks. | 2.1 Carry out pre-start, start-up, park and shut-down including emergency shut-down procedures on vehicle and pump in accordance with manufacturer and site requirements. |
| | 2.2 Check vehicle controls and functions for serviceability and rectify or report faults. |
| | 2.3 Check distribution system components prior to use in accordance with workplace requirements. |
| | 2.4 Clean and service hoppers prior to use in accordance with workplace requirements. |
| 3 Operate concrete boom delivery vehicle. | 3.1 Identify hazards associated with vehicle positioning and operations and use safe operating techniques to minimise risk. |
| | 3.2 Manage engine power to ensure efficiency of concrete pump vehicle platform movements and to minimise damage to engine and gears. |

- 3.3 Coordinate engine power with gear selection ensuring smooth transition and operation within torque range.
 - 3.4 Operate vehicle in accordance with work instructions and workplace requirements.
 - 3.5 Monitor road and traffic conditions accounting for traffic flow, distance and load, and ensuring no injury to people or damage to property, equipment or load.
 - 3.6 Bring truck to a halt smoothly using engine retarder, gears and brakes to minimise vehicle wear and tear.
- 4 Deliver concrete with concrete boom delivery system.
 - 4.1 Identify and assess hazards associated with positioning and operating boom delivery components and use safe operating procedures to minimise risk.
 - 4.2 Position boom delivery vehicle at site to best service delivery task and provide access to concrete-supply vehicle.
 - 4.3 Prepare, deploy and check delivery platform stabilisers to manufacturer requirements for operation and safety.
 - 4.4 Check and position delivery system components securely and safely, in accordance with manufacturer requirements.
 - 4.5 Test-run pumping systems and prepare for use in accordance with manufacturer requirements.
 - 4.6 Coordinate safe supply of bulk concrete mix to the hopper with supply vehicle operator.
 - 4.7 Operate boom delivery system and vary its positioning to maintain concrete delivery to the required destination.
 - 4.8 Withdraw boom delivery system safely at completion of delivery task.
- 5 Carry out operator maintenance of concrete boom delivery vehicle.
 - 5.1 Park boom delivery vehicle safely, prepare for maintenance and shut down in accordance with manufacturer and workplace requirements.
 - 5.2 Carry out basic diagnostic procedures on vehicle, pump and boom system components in accordance with

- manufacturer requirements, and record outcomes in accordance with workplace requirements.
- 5.3 Remove and replace defective parts safely and effectively in accordance with manufacturer and workplace requirements.
- 5.4 Carry out regular scheduled maintenance tasks in accordance with manufacturer and 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 vehicle, plant, tools and equipment in accordance with manufacturer and workplace requirements.

Foundation Skills

As well as the foundation skills explicit in the performance criteria of this unit, candidates require:

- communication skills to interpret non-verbal communication such as hand signals.

Unit Mapping Information

Supersedes and is equivalent to CPCCCO3052 Conduct concrete boom delivery operations

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>