



**Australian Government**

# **CPCCON3051 Conduct off-form vertical concrete operations**

**Release: 2**

# CPCCON3051 Conduct off-form vertical concrete 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.<br><br>Supersedes and is equivalent to CPCCCO3051 Conduct off-form vertical concrete operations. |

## Application

This unit of competency specifies the skills and knowledge required to prepare and apply concrete to slip-form or jump-form structures in the construction of multi storey buildings. It includes sequencing, placing and compacting concrete in formwork.

A person who has achieved this unit of competency would be expected to take responsibility for organising and completing these tasks with a high degree of self-direction.

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.

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.

## Pre-requisite Unit

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

## Unit Sector

Concreting

## 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 conduct off-form    | 1.1 Interpret drawings and specifications for off-form vertical concrete operations and clarify requirements |

|                                                        |     |                                                                                                                                                             |
|--------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| vertical concrete operations.                          |     | with relevant persons.                                                                                                                                      |
|                                                        | 1.2 | Plan work tasks to comply with relevant legislation, regulations, standards, codes, work health and safety (WHS), environmental and workplace requirements. |
|                                                        | 1.3 | Select and fit required personal protective equipment (PPE).                                                                                                |
|                                                        | 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.                                                               |
|                                                        | 1.6 | Calculate and acquire material quantities to meet task specifications and safely locate materials ready for use.                                            |
| 2 Set out and prepare slip-form or jump-form location. | 2.1 | Set out location and size of pour in accordance with drawings and specifications.                                                                           |
|                                                        | 2.2 | Prepare equipment specifically associated with slip-formwork or jump-formwork installation.                                                                 |
|                                                        | 2.3 | Prepare, place and fix edge formwork with plumb and align to specifications.                                                                                |
|                                                        | 2.4 | Use required equipment to apply form release agent to slip -formwork or jump-formwork in accordance with specifications.                                    |
| 3 Place and tie reinforcement and cast-in fittings.    | 3.1 | Check reinforcement, accessories and cast-in fittings for conformity with drawings and specifications.                                                      |
|                                                        | 3.2 | Position reinforcement and accessories in accordance with engineering drawings and specifications.                                                          |
|                                                        | 3.3 | Tie reinforcement in correct placement in accordance with engineering drawings and specifications.                                                          |
| 4 Place, finish and cure concrete.                     | 4.1 | Determine sequencing of concrete from specifications.                                                                                                       |
|                                                        | 4.2 | Place concrete evenly into formwork in layers and consolidate to specification, avoiding material                                                           |

- segregation and using approved compaction method.
  - 4.3 Screed and finish concrete surface to specification ensuring cast-in fittings are clear.
  - 4.4 Add curing compound in accordance with specifications.
  - 4.5 Continue placement cycle after slip-form or jump-form formwork is progressed by riggers, avoiding cold joint.
- 5 Clean up.
- 5.1 Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements.
  - 5.2 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 CPCCCO3051 Conduct off-form vertical concrete 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>