



Australian Government

CPCCCO3051 Conduct off-form vertical concrete operations

Release: 1

CPCCCO3051 Conduct off-form vertical concrete operations

Modification History

Release 1.

Supersedes and equivalent to CPCCCO3051A Conduct off-form vertical concrete operations.

The unit of competency was updated to the Standards for Training Packages 2012.

This version first released with CPC Construction, Plumbing and Services Training Package Version 4.0.

Application

This unit of competency specifies the skills and knowledge required to prepare and apply concrete to slip-form or jump-form structures on residential, commercial or civil construction sites in the construction of multi storey buildings.

It includes sequencing, placing and compacting concrete in formwork.

It applies to concreters working as members of a team with at least a moderate degree of autonomy. They would be expected to complete routine activities without close supervision.

Licensing, legislative, regulatory or certification requirements apply to this unit of competency in all states and territories except Tasmania. Relevant state and territory regulatory authorities should be consulted to confirm these requirements.

Pre-requisite Unit

CPCCWHS2001 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 conduct off-form vertical concrete operations.	1.1 Review and clarify task to conduct off-form vertical concrete operations. 1.2 Review task specifications and check to make sure they are in accordance with legislation, regulations and codes of practice. 1.3 Review work health and safety (WHS) requirements for the task in accordance with safety plans and policies.

	1.4 Identify safety signage and barricade requirements. 1.5 Review environmental requirements for the task in accordance with environmental plans and legislative requirements. 1.6 Select plant, tools and equipment, check for serviceability and rectify or report any faults. 1.7 Calculate material quantity requirements. 1.8 Acquire materials for the task and locate them safely ready for use.
2. Set out and prepare slip-form or jump-form location.	2.1 Erect identified safety signage and barricades, and fit personal protective equipment (PPE). 2.2 Set out the location and size of pour to requirements of job drawings and specifications. 2.3 Prepare equipment specifically associated with the installation of slip-formwork or jump-formwork concrete projects. 2.4 Prepare, place and fix edge formwork with plumb and align to specifications. 2.5 Apply form release agent to slip-formwork or jump-formwork with appliance or machine to specifications.
3. Place and tie reinforcement and cast-in fittings.	3.1 Check reinforcement, accessories and cast-in fittings for conformity with design and specifications. 3.2 Position reinforcement and accessories in accordance with engineering drawings and specifications. 3.3 Tie and/or weld 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 after conducting off-form vertical concrete operations.	5.1 Clear work area and dispose of, re-use or recycle materials in accordance with legislation, regulations, codes of practice and task requirements. 5.2 Clean, check, maintain and store tools and equipment in accordance with manufacturers' specifications and workplace

	requirements.
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Foundation Skills

This section describes the language, literacy, numeracy and employment skills essential to performance in this unit but not explicit in the performance criteria.

- oral communication skills to:
 - use questioning to identify and confirm requirements
 - discuss cause of problems
 - report work site hazards, including faults in tools, equipment and materials.

Unit Mapping Information

Supersedes and is equivalent to CPCCCO3051A 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>

Assessment Requirements for CPCCCO3051 Conduct off-form vertical concrete operations

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Performance Evidence

To demonstrate competency in this unit, a person must conduct two off-form vertical concrete operations.

In doing this, the person must meet the performance criteria for this unit.

Knowledge Evidence

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

- jurisdictional work health and safety (WHS) and environmental legislation and regulations relating to conducting off-form vertical concrete operations, including:
 - job safety analyses (JSAs)
 - 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)
 - environmental and work site safety plans
- requirements of Australian Standards and the National Construction Code (NCC) relating to conducting off-form vertical concrete operations
- workplace requirements for all aspects of conducting off-form vertical concrete operations, including interpreting work orders and reporting problems
- types, characteristics, uses and limitations of tools, equipment and materials required for conducting off-form vertical concrete operations, including:
 - safe operating procedures
 - operational, maintenance and basic diagnostic procedures
 - workplace and equipment safety requirements
- processes for conducting off-form vertical concrete operations in conjunction with other team members involved in the slip-form or jump-form process, including concreters, carpenters, riggers, steel fixers and electricians

- techniques for conducting off-form vertical concrete operations
- quality requirements relevant to conducting off-form vertical concrete operations
- processes, materials and equipment for conducting off-form vertical concrete operations
- requirements for cleaning up work area and tools, materials storage and environmentally friendly waste management.

Assessment Conditions

Assessors must satisfy the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment of performance must be undertaken in the workplace or in a simulated workplace environment. Tasks are to be performed to the level of proficiency and within the time limits expected in a workplace.

Assessors are responsible for ensuring that the person demonstrating competency has access to:

- work sites and specifications for conducting off-form vertical concrete operations
- appropriate documents, materials, tools, equipment and PPE currently used in industry
- requirements of appropriate sections of legislation and regulations
- relevant workplace policies and procedures.

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