



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. 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>

Assessment Requirements for CPCCON3051 Conduct off-form vertical concrete operations

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by conducting two different off-form vertical concrete operations.

Knowledge Evidence

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

- compliance requirements of legislation, regulations and Australian Standards relevant to off-form vertical concrete operations
 - environmental protection and waste disposal
 - material specifications and tolerances
 - work health and safety (WHS)
- health risks associated with silica dust exposure
- processes for conducting off-form vertical concrete operations in conjunction with other personnel involved in the slip-form or jump-form process:
 - carpenters
 - electricians
 - other concreters
 - riggers
 - steel fixers
- processes for placing, finishing and curing concrete including approved compaction methods
- types, characteristics, uses and limitations of plant, tools, equipment and materials required for off-form vertical concrete operations
- types, purpose and application of release agents used in vertical concrete operations
- typical uses of slip-form and jump-form formwork in vertical concrete operations
- workplace requirements for conducting off-form vertical concrete operations:

- cleaning up the work area
- maintaining and storing materials, plant, tools and equipment
- quality
- reporting problems
- safety requirements including personal protective equipment (PPE).

Assessment Conditions

Assessors must meet the requirements for assessors contained 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 documentation, drawings, specifications, work sites, materials, tools and equipment required to achieve the performance evidence.

Links

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