



Australian Government

CPCCON3049 Apply and finish sprayed concrete

Release: 1

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Modification History

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCCCO3049 Apply and finish sprayed concrete.

Application

This unit of competency specifies the skills and knowledge required to apply and finish pre-mixed concrete using wet and dry spraying methods. Sprayed concrete has application where conventional concreting methods cannot be used such as for barrel vaulting, caissons, canal linings, diaphragm walls, drainage channels, irrigation systems, piled wall facings, reservoirs, shell roofs and domes, silo structures, tunnel linings, walls and water towers. The unit does not cover the application of sprayed concrete to shape and finish swimming pool and spa shells.

A person who has achieved this unit of competency would be expected to take responsibility for organising and completing work 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 *CPCCWHS1001 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 apply and finish sprayed concrete.
 - 1.1 Interpret specifications for concrete spraying and clarify requirements 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.
 - 1.7 Check that material properties and slump meet specification and take any actions required to ensure compliance.
- 2 Carry out concrete spraying and finishing activities.
 - 2.1 Prepare pumping equipment for delivery of concrete mix to spray nozzle.
 - 2.2 Check reinforcement to ensure it is away from the structure where concrete is to be applied.
 - 2.3 Apply concrete to surface using required spray method within specified tolerances.
 - 2.4 Shape and finish sprayed concrete to required form in accordance with work specifications.
- 3 Clean up.
 - 3.1 Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements.
 - 3.2 Clean, check, maintain and store plant, 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 CPCCCO3049 Apply and finish sprayed concrete.

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>