



Australian Government

Assessment Requirements for CPCCON3049 Apply and finish sprayed concrete

Release: 2

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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 CPCCCO3049 Apply and finish sprayed concrete.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by applying and finishing sprayed concrete in two different projects:

- each project must involve a minimum of 10 square metres of concrete
- wet and dry spraying concreting methods must be used across the two projects.

Knowledge Evidence

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

- basic science of concrete involving cement chemical reaction (hydration) dependent on water content, temperature and time:
 - effect on plastic state performance:
 - benefits and non-benefits of admixture types and doses
 - plastic shrinkage cracking risk
 - effect on hardened state performance:
 - early age and later age strength development
 - drying shrinkage and cracking
- compliance requirements of legislation, regulations and Australian Standards relevant to concrete spraying tasks:
 - environmental protection and waste disposal
 - material specifications and tolerances
 - work health and safety (WHS)
- effects of temperature, wind and low humidity on the properties of concrete:
 - detrimental effect of water addition to concrete properties
 - precautions that should be taken to minimise any potential adverse effects when applying and finishing sprayed concrete

- health risks associated with silica dust exposure
- methods for checking that material properties meet specifications:
 - slump
 - water to cement ratios
- processes for applying and finishing sprayed concrete using wet and dry spraying methods:
 - dense flow process
 - mixing, transporting and placing sprayed concrete
 - thin flow process
- types, characteristics, uses and limitations of plant, tools, equipment and materials used to apply and finish sprayed concrete
- typical uses and applications of sprayed concrete
- workplace requirements for applying and finishing sprayed concrete:
 - 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, specifications, work sites, materials, plant, tools and equipment required to achieve the performance evidence.

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>