



Australian Government

Assessment Requirements for CPCCON3043 Cure concrete

Release: 2

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Modification History

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| 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 CPCCCO3043 Cure concrete |

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by curing concrete in either a non-precast work environment or a precast work environment:

- for the non-precast work environment, curing concrete at five different sites, each measuring at least 100 square metres
- for the precast work environment, curing a minimum of three panels on five different occasions.

A total of two curing techniques must be used:

- curing compound
- another technique selected from the following:
 - covering
 - flooding or ponding
 - fogging
 - steaming.

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

- compatibilities of curing compounds with different floor finishes including vinyl, timber and natural stone products
- compliance requirements of legislation, regulations, codes and Australian Standards relevant to concrete curing tasks:
 - environmental protection and waste disposal
 - work health and safety (WHS)
- concrete curing techniques:
 - covering
 - curing compound
 - flooding or ponding
 - fogging
 - steaming
- 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 curing concrete
- health risks associated with silica dust exposure
- methods for calculating curing duration
- specifications used to interpret material quantities and concrete curing requirements
- types and applications of materials and compounds used when curing concrete
- types, characteristics, uses and limitations of tools and equipment used when curing concrete
- ways to minimise moisture loss during curing using different curing methods
- workplace requirements for curing concrete:
 - cleaning up the work area
 - maintaining and storing materials, 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, materials, 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>