



Australian Government

CPCCCO3043 Cure concrete

Release: 1

CPCCCO3043 Cure concrete

Modification History

Release 1.

Supersedes and equivalent to CPCCCO3043A Cure concrete.

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 carry out the initial curing process to poured concrete in order to control moisture evaporation from finished concrete.

It includes using curing agents and curing techniques in accordance with engineering specifications.

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 cure concrete.	1.1 Review and clarify task to cure concrete. 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 preventative barrier 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 Acquire materials for the task and locate them safely ready for use.
2. Apply curing technique to concrete.	2.1 Erect identified safety signage and barricades, and fit personal protective equipment (PPE). 2.2 Install and maintain preventative barriers to stop curing agents from effecting surrounding environment. 2.3 Apply curing compound and maintain curing method on concrete surface to task specifications. 2.4 Protect concrete during curing process.
3. Clean up after curing concrete.	3.1 Clear work area and dispose of, re-use or recycle materials in accordance with legislation, regulations, codes of practice and task requirements. 3.2 Clean, check, maintain and store chemicals, tools and equipment in accordance with manufacturers' specifications and workplace requirements.

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.

- numeracy skills to calculate requirements for curing compound
- 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
 - provide feedback.

Unit Mapping Information

Supersedes and is equivalent to CPCCCO3043A Cure 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>

Assessment Requirements for CPCCCO3043 Cure concrete

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Performance Evidence

To demonstrate competency in this unit, a person must use at least two types of curing compound to cure concrete in five different projects, each measuring at least 100 square metres.

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 curing concrete, 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 curing concrete
- workplace requirements for all aspects of curing concrete, including interpreting work orders and reporting problems
- types, characteristics, uses and limitations of tools, equipment and curing compounds required for curing concrete
- concrete curing techniques, including curing duration and effect on ultimate strength
- quality requirements relevant to curing concrete
- types and applications of concrete materials used in the curing process
- processes for protecting concrete, including:
 - isolating and/or barricading the area
 - using plastic membrane where required
- properties of concrete in order to minimise waste, delay and faults in curing concrete

- 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 curing concrete
- appropriate documents, materials, curing compounds, 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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