



Australian Government

CPCCCO3047 Cut and core concrete

Release: 1

CPCCCO3047 Cut and core concrete

Modification History

Release 1.

Supersedes and equivalent to CPCCCO3047A Cut and core 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 cut and core concrete.

It includes planning and preparing the work and the use of sawing and drilling equipment to provide service holes, core samples and construction joints, and to join new components.

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 cut and core concrete.	1.1 Review and clarify task to cut and core concrete. 1.2 Assess work site to determine scope of task. 1.3 Review job drawings and specifications, and check to make sure they are in accordance with legislation, regulations and codes of practice. 1.4 Review work health and safety (WHS) requirements for the task in accordance with safety plans and policies.

	1.5 Identify safety signage and barricade requirements. 1.6 Review environmental requirements for the task in accordance with environmental plans and legislative requirements. 1.7 Select plant, tools and equipment, check for serviceability and rectify or report any faults.
2. Undertake cutting and coring activities.	2.1 Erect identified safety signage and barricades, and fit personal protective equipment (PPE). 2.2 Cut sawn joint. 2.3 Drill cored hole.
3. Clean up after cutting and coring 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 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 positions for cutting and coring concrete
- 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 CPCCCO3047A Cut and core 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 CPCCCO3047 Cut and core concrete

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Performance Evidence

To demonstrate competency in this unit, a person must:

- saw-cut one joint to a horizontal concrete surface to a minimum of five metres straight or to the set line
- core one hole in a vertical concrete surface, clear through a minimum of 100 mm in depth.

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 cutting and coring 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 cutting and coring concrete
- workplace requirements for all aspects of cutting and coring concrete, including interpreting work orders and reporting problems
- types, characteristics, uses and limitations of tools, equipment and materials required for cutting and coring concrete, including:
 - safe operating procedures
 - operational, maintenance and basic diagnostic procedures
 - workplace and equipment safety requirements
- techniques for cutting and coring concrete, including concrete:

- columns
- commercial buildings
- driveways
- foundations
- gutters
- hardstands
- kerbs
- pathways
- pits
- plinths
- residential buildings
- slabs
- walls
- quality requirements relevant to cutting and coring concrete
- uses, maintenance and limitations of tools and equipment used for cutting and coring concrete, including:
 - concrete drilling equipment
 - concrete saws – hand-held and walk-behind
 - coring equipment
 - diamond tip drill bits
- processes, materials and equipment for minor repairs to concrete, including:
 - acid etching and cleaning
 - bonded toppings failure
 - existing concrete toppings failure
 - levelling failure
 - mortar failure
- 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 cutting and coring concrete
- appropriate documents, materials, 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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