

Draft 0.1

This is our work-in-progress update to CPCCCO3047 Cut and core concrete:
<https://training.gov.au/Training/Details/CPCCCO3047>.

We are working with industry experts to ensure the updated unit:

- meets current and anticipated industry needs
- complies with current Standards for Training Packages
- is written in clear understandable English.

Information on our training package review and development process is available here:
<http://www.artibus.com.au/project-stage>.

Summary of changes from current endorsed unit:

- title changed to “Cut concrete” – coring aspects removed from unit
- PC 1.2 modified to ‘Assess work site to determine concrete type, thickness and reinforcement and base type impacting cutting requirements’
- element 2 rewritten: Carry out concrete cutting activities
- PCs in Element 2 rewritten to capture tasks in cutting concrete and embed quality and safety requirements
- modified performance evidence to require twice, since coring was removed
- knowledge:
 - deleted knowledge of repair/rectification since it’s not required by PCs and covered by another unit
 - deleted sub-listing of tools as most related to coring
- new points:
 - cutting methods that can cause excessive blade wear, raveling and cracking
 - factors to consider when assessing the readiness of concrete for cutting to avoid raveling, cracks and saw damage
 - purpose of construction, contraction, control and expansion joints and methods for their installation
- assessment conditions: standard wording changed and modified requirement for candidates

Unit of Competency

CPCCON3047 Cut concrete

Modification history

Release	Comments
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.
2	Supersedes and non-equivalent to CPCCCO3047 Cut and core concrete. Title changed. This version first released with CPC Construction, Plumbing and Services Training Package Version 6.0.

Application

This unit of competency specifies the skills and knowledge required to safely cut concrete. It includes planning and preparing for work and using sawing equipment to provide construction joints and to join new components.

A person who has achieved this unit of competency would be expected to take responsibility for organising and completing these 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.

Prerequisite Unit

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

Unit Sector

Concreting

Elements and Performance Criteria

1. Plan and prepare to cut concrete.	1.1 Interpret specifications for concrete cutting and clarify requirements with relevant persons. 1.2 Assess work site to determine concrete type, thickness, reinforcement and base type impacting cutting requirements. 1.3 Plan all work to comply with relevant legislation, regulations, standards, codes, work health and safety, environmental and workplace requirements. 1.4 Select and fit personal protective equipment appropriate for work activities. 1.5 Inspect work site, assess hazards and apply risk controls, including required signage and barricades. 1.6 Select tools and equipment, check for serviceability and rectify or report any faults.
2. Carry out concrete cutting activities.	2.1 Inspect concrete to assess its readiness for cutting and to prevent raveling, cracking and saw damage. 2.2 Conduct required measurements and calculations and mark cutting positions in accordance with specifications.

	<p>2.3 Use tools and equipment safely to perform trial cuts in accordance with manufacturers' instructions and workplace requirements.</p> <p>2.4 Cut concrete to meet specifications and workplace requirements.</p> <p>2.5 Control dust from concrete cutting activities in accordance with workplace requirements.</p>
3. Clean up.	<p>3.1 Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements.</p> <p>3.2 Clean, check, maintain and store tools and equipment in accordance with manufacturers' instructions and workplace requirements.</p>

Foundation skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is non-equivalent to CPCCCO3047 Cut and core concrete

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCCON3047 Cut concrete

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by saw-cutting one joint to a horizontal concrete surface to a minimum of five metres straight or to the set line on two different occasions.

Knowledge Evidence

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

- concrete cutting processes and techniques:
 - soft cutting
 - expansion cutting
- cutting methods that can cause excessive blade wear, raveling and cracking
- factors to consider when assessing the readiness of concrete for cutting to avoid raveling, cracks and saw damage including the effects of weather and climate
- requirements of Australian Standards and the National Construction Code related to cutting concrete
- requirements of Commonwealth and state or territory work health and safety and environmental legislation and regulations relevant to cutting concrete:
 - hazard identification and risk control
 - hazardous material and waste disposal
 - job safety analyses
 - personal protective equipment
 - safe work method statements
 - safety manuals and instructions for plant, tools and equipment
 - signage and barricades
- purpose of construction, contraction, control and expansion joints and methods for their installation
- typical hazards associated with concrete cutting using concrete and masonry saws, and risk control methods for each:
 - blade fracture
 - electrocution
 - saw kick-back, push-back and pull-in
 - silica dust
 - toxic fumes
- uses, maintenance and limitations of tools and equipment used to cut concrete:
- workplace requirements for cutting concrete:

- cleaning up
- dust suppression
- maintaining and storing tools and equipment
- quality
- reporting problems.

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, concrete, tools and equipment required to achieve the performance evidence.

Links

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