

**Draft 0.1**

New unit.

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:**

- new unit to cover functions associated with general coring of concrete

DRAFT

## Unit of Competency

### CPCCON3057 Core concrete

#### Modification history

| Release | Comments  |
|---------|---|
| 1       | New unit.<br>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 core concrete. It requires setting up and using core drilling systems to drill holes in concrete to specification.

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 core concrete.    | <ul style="list-style-type: none"><li>1.1 Interpret plans and specifications for concrete coring and clarify requirements with relevant persons.</li><li>1.2 Assess work site to determine concrete type, thickness, reinforcement and base type impacting coring requirements.</li><li>1.3 Plan work tasks to comply with relevant legislation, regulations, standards and codes, and manufacturer, work health and safety, environmental and workplace requirements.</li><li>1.4 Select and fit required personal protective equipment.</li><li>1.5 Inspect work site, assess hazards and apply risk controls, including required signage and barricades.</li><li>1.6 Select and set up core drilling system appropriate to the task, check for serviceability and rectify or report any faults.</li><li>1.7 Select and attach drill motor and drill bit appropriate to the task according to manufacturer and workplace requirements.</li></ul> |
| 2. Carry out concrete coring activities. | <ul style="list-style-type: none"><li>2.1 Conduct measurements and calculations to correctly set out and mark up drill hole according to specifications.</li><li>2.2 Identify core plug removal and securing method according to workplace requirements.</li><li>2.3 Drill hole in concrete according to specifications, manufacturer and workplace requirements.</li><li>2.4 Monitor drilling system to ensure correct and safe operation according to manufacturer and workplace requirements.</li><li>2.5 Remove core plug safely according to workplace requirements.</li></ul>  |

|              |  |
|--------------|--|
| 3. Clean up. | 3.1 Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements.<br>3.2 Clean, check, maintain and store tools and equipment in accordance with manufacturer and workplace requirements. |
|--------------|--|

### Foundation skills

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

### Unit Mapping Information

No equivalent unit

### Links

Companion Volume Implementation Guide:

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

DRAFT

## Assessment Requirements for CPCCON3057 Core concrete

### Modification history

| Release | Comments  |
|---------|---|
| 1       | New unit.<br>This version first released with CPC Construction, Plumbing and Services Training Package Version 6.0. |

### Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by coring concrete on two different occasions including coring one hole in a vertical concrete surface, clear through a minimum of 100 millimetres in depth.

### Knowledge Evidence

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

- compliance requirements of legislation, regulations, codes and Australian Standards relevant to coring concrete:
  - environmental protection and waste disposal
  - tolerances for alignment accuracy associated with core drilling diameters and lengths
  - work health and safety:
    - hazard identification and risk control
    - personal protective equipment
    - safety data sheets and hazardous materials handling
    - safety manuals and instructions for plant, tools and equipment
    - safe work method statements
    - signage and barricades
- concrete coring processes and techniques:
  - setting out and marking up drill holes
  - methods for safely securing and removing plugs
- core drilling system components and applications:
  - diamond drill bit
  - drilling accessories
  - drill motor
  - drill stand
- typical hazards associated with concrete coring using drilling systems, and risk control methods for each:
  - electrocution
  - silica dust
  - toxic fumes
- workplace requirements for coring concrete:
  - cleaning up
  - maintaining and storing tools and equipment
  - quality
  - reporting problems
  - safety requirements including dust suppression.

### 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

Companion Volume Implementation Guide:

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

DRAFT