

Draft 0.1

This is our work-in-progress update to CPCCCO2021 Handle concreting materials:
<https://training.gov.au/Training/Details/CPCCCO2021>.

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:

- code changed to comply with policy for NSSC endorsement required changes to units
- title changed to better reflect outcome ie handle concreting materials and components
- more consistent use of 'materials and components' throughout unit
- application modified
- elements and PCs modified for consistency with other construction units about handling materials
- knowledge updated to remove duplication and add specificity, eg:
 - removed Australian Standards and NCC as these do not reference handling of materials/equipment
 - all safety and environmental requirements under WHS and environmental legislation and regulations
 - included knowledge of 'risks associated with silica exposure'
- assessment conditions: standard wording changed and modified requirement for candidates

Unit of Competency

CPCCON2021 Handle concreting materials and components

Modification history

Release	Comments
1	Supersedes and equivalent to CPCCCO2021A Handle concreting materials. 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 equivalent to CPCCCO2021 Handle concreting materials. Minor change to title. 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 handle concreting materials and components in preparation for concreting work. It includes checking materials and components for conformity to schedules, plans and specifications, and using manual-handling techniques to sort and stack materials and components for work. It requires identifying and safely handling hazardous materials and waste in accordance with safety data sheets (SDS) and cleaning up on completion of work tasks.

The unit is suitable for those with basic skills and knowledge undertaking routine work tasks under the direction of more experienced workers.

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 for work.	<ul style="list-style-type: none">1.1 Read work instructions and clarify requirements for handling concreting materials and components with relevant persons.1.2 Plan work tasks to comply with relevant legislation, regulations, manufacturers' instructions, work health and safety, environmental and workplace requirements.1.3 Select and fit personal protective equipment appropriate for work activities.1.4 Inspect work site, assess hazards and apply risk controls, including required signage and barricades.1.5 Select tools and equipment, check for serviceability and rectify or report any faults.
2. Identify, move and stack concreting materials and components.	<ul style="list-style-type: none">2.1 Check types and quantities of materials and components against material schedule, plans and specifications and report non-conformities.

	<p>2.2 Identify handling characteristics of concreting materials from SDS and regulatory requirements.</p> <p>2.3 Use safe and effective manual-handling techniques to move concreting materials and components to specified location.</p> <p>2.4 Stack concreting materials and components to facilitate identification and retrieval and clear of access ways to protect against damage.</p> <p>2.5 Position concreting components ready for installation in accordance with plans and manufacturers' and work instructions.</p>
3. Remove concreting materials and components on completion of task.	<p>3.1 Identify hazardous concreting materials and apply waste management procedures in accordance with relevant SDS and regulatory requirements.</p> <p>3.2 Remove surplus concreting materials and components using safe manual-handling techniques.</p> <p>3.3 Use dust suppression procedures to minimise health risk to people in the work environment.</p>
4. Clean up.	<p>4.1 Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements.</p> <p>4.2 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 equivalent to CPCCCO2021 Handle concreting materials.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCCON2021 Handle concreting materials and components

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by handling concreting materials and components for tasks at three different concrete placement sites.

Knowledge Evidence

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

- requirements of Commonwealth and state or territory work health and safety and environmental legislation and regulations relevant to handling concreting materials and components:
 - hazard identification and risk control
 - hazardous material and waste disposal
 - job safety analyses
 - personal protective equipment
 - risks associated with silica exposure
 - safe manual handling techniques
 - safe work method statements
 - safety data sheets
 - safety manuals and instructions for plant, tools and equipment
 - signage and barricades
- tools and equipment used when handling concreting materials and components
- types and purpose of components used in concreting:
 - bar chairs
 - bar steel
 - bracing
 - decking
 - key joints
 - plastic membrane
 - push-pull props
 - reinforcement bars
 - reinforcement mesh
 - spacers
 - steel and timber formwork
 - support props
- types and purpose of materials used in concreting:

- additives
- aggregates
- cement
- curing compounds
- form release agents
- general non-toxic concreting materials
- oxides
- sand
- water
- workplace requirements for handling concreting materials and components:
 - cleaning up
 - maintaining and storing tools, equipment, materials and components
 - 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, instructions, concreting materials and components, tools and equipment required to achieve the performance evidence.

Links

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