



Australian Government

CPCCCO3042 Finish concrete

Release: 1

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Modification History

Release 1.

Supersedes and equivalent to CPCCCO3042A Finish 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 finish placed and screeded concrete surfaces to specified finish requirements, including edge finishing.

It includes manual and mechanical finishing techniques applied to concrete on commercial, residential and civil construction sites.

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 finish concrete.	1.1 Review and clarify task to finish 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 safety signage and barricade 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.
2. Apply concrete finishing techniques.	2.1 Erect identified safety signage and barricades, and fit personal protective equipment (PPE). 2.2 Leave concrete untouched until bleed water has come to the surface and evaporated. 2.3 Assess surface of concrete during curing process and maintain level surface to allow manual and mechanical trowelling to be applied. 2.4 Assess strength of setting concrete using a basic thumb test to ensure weight of mechanical trowel and operator can be accommodated. 2.5 Apply mechanical trowelling in multiple overlapping lines to consolidate and densify the setting concrete surface. 2.6 Install control joints, finish edges, and trowel concrete to specifications. 2.7 Finish concrete in accordance with job specifications.
3. Clean up after finishing 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.

- 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 CPCCCO3042A Finish 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 CPCCCO3042 Finish concrete

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Performance Evidence

To demonstrate competency in this unit, a person must finish five different concrete surfaces, each surface 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 concrete finishing, 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 concrete finishing
- workplace requirements for all aspects of finishing concrete including interpreting work orders and reporting problems
- interpreting project plans and specifications for concrete finishing requirements
- types, characteristics, uses and limitations of plant, tools, equipment and materials used for finishing concrete, including:
 - bull floats
 - power, hand or wooden floats
 - magnesium trowels
 - power trowels
 - steel trowels
- compliance requirements of regulations and standards relating to finishing concrete, including relevant sections of:

- Australian Standard (AS) 3600 Concrete structures
- properties of concrete to be able to correctly identify when finishing techniques should be applied to minimise waste, delay and faults in finished concrete
- edge finishing techniques
- concreting levelling and finishing techniques, including:
 - fine
 - rounded
 - straight edge
- quality requirements and techniques that will result in the required concrete finish
- 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 finishing 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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