



Australian Government

CPCCON3042 Finish concrete

Release: 2

CPCCON3042 Finish concrete

Modification History

Release 2	Updated reference to general construction induction training program.
Release 1	This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0. Supersedes and is equivalent to CPCCCO3042 Finish concrete.

Application

This unit of competency specifies the skills and knowledge required to finish placed and screeded concrete surfaces to specification. It requires using manual and mechanical finishing techniques including edge finishing.

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.

Completion of the general construction induction training program, specified in the Safe Work Australia model *Code of Practice: Construction Work*, is required by anyone carrying out construction work. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

Pre-requisite Unit

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

Unit Sector

Concreting

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 Interpret specifications for concrete finishing and clarify requirements with relevant persons.

- 1.2 Plan work tasks to comply with relevant legislation, regulations, standards, codes, work health and safety (WHS), environmental and workplace requirements.
 - 1.3 Select and fit required personal protective equipment (PPE).
 - 1.4 Inspect work site, assess hazards and apply risk controls, including required signage and barricades.
 - 1.5 Select plant, tools and equipment, check for serviceability and rectify or report any faults.
- 2 Apply concrete finishing techniques.
 - 2.1 Leave concrete untouched until bleed water has come to the surface and evaporated.
 - 2.2 Assess concrete surface during curing process and maintain level surface to allow manual and mechanical trowelling to be applied.
 - 2.3 Assess strength of setting concrete using basic thumb test to ensure weight of mechanical trowel and operator can be accommodated.
 - 2.4 Apply mechanical trowelling in multiple overlapping lines to consolidate and densify the setting concrete surface.
 - 2.5 Install jointing system, finish edges, and trowel concrete to specifications.
 - 2.6 Finish concrete and check compliance with specifications and workplace requirements.
- 3 Clean up.
 - 3.1 Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements.
 - 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

Supersedes and is equivalent to CPCCCO3042 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 CPCCON3042 Finish concrete

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by finishing concrete in either a non-precast work environment or a precast work environment:

- for the non-precast work environment, finishing five different concrete surfaces with each surface measuring at least 100 square metres
- for the precast work environment, on five different occasions, finishing a minimum of three concrete panels involving more than one truck load of concrete.

Finishing techniques must include textured or non-slip and one other technique selected from the list below:

- edging and jointing system
- steel trowel.

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 concrete finishing tasks:
 - environmental protection and waste disposal
 - work health and safety (WHS)
- concrete finishing techniques:
 - edging and jointing systems
 - steel trowel
 - textured or non-slip
- effects of temperature, wind and low humidity on the properties of concrete:
 - detrimental effect of water addition to concrete properties
 - precautions that should be taken to minimise any potential adverse effects when finishing concrete
- health risks associated with silica dust exposure

- methods for assessing the strength of setting concrete using the basic thumb test
- properties of concrete to be able to correctly identify when finishing techniques should be applied to minimise waste, delay and faults in finished concrete
- purpose and importance of construction, contraction, control and expansion joints:
 - doweling systems
 - installation methods
 - role in the long-term serviceability of concrete pavements
- types, characteristics, uses and limitations of plant, tools and equipment used to finish concrete
- types of drawings and specifications used to interpret concrete finishing requirements
- workplace requirements for finishing concrete:
 - cleaning up the work area
 - maintaining and storing plant, tools and equipment
 - reporting problems
 - quality
 - safety requirements including personal protective equipment (PPE).

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 surfaces, plant, tools and equipment required to achieve the performance evidence.

Links

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