



**Australian Government**

# **CPCCCO3044 Apply decorative finishes to concrete**

**Release: 1**

# CPCCCO3044 Apply decorative finishes to concrete

## Modification History

Release 1.

Supersedes and equivalent to CPCCCO3044A Carry out decorative finishes to concrete.  
Minor change to title.

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 apply decorative finishes to concrete surfaces.

It includes producing decorative finishes to areas of concrete, using stamps, stencils, colours, exposed aggregate, and textured finishes to produce distinctive featured face finishes for driveways, patios, paths or other areas.

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 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.                                                                                                                                                                             |
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| 1. Plan and prepare to apply decorative finishes to concrete. | 1.1 Review and clarify task to apply decorative finishes to concrete.<br>1.2 Review task specifications and check to make sure they are in accordance with legislation, regulations and codes of practice.<br>1.3 Review work health and safety (WHS) requirements for the |

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|                                                                 | <p>task in accordance with safety plans and policies.</p> <p>1.4 Review environmental requirements for the task in accordance with environmental plans and legislative requirements.</p> <p>1.5 Select plant, tools and equipment, check for serviceability and rectify or report any faults.</p> <p>1.6 Calculate material quantity requirements.</p> <p>1.7 Acquire materials for the task and locate them safely ready for use.</p>                                                                                                                                                                                                                        |
| 2. Apply stencil finishes with dry topping mix on wet concrete. | <p>2.1 Prepare stencil finish so that any lapping maintains alignment and bond.</p> <p>2.2 Lay stencil onto screeded surface in accordance with specifications, ensuring alignment, bond and flat.</p> <p>2.3 Prepare dry topping mix of colour, stone dust and cement and apply in accordance with specifications.</p> <p>2.4 Finish surface with wood or magnesium float or steel trowel to a consistent texture in accordance with specifications.</p> <p>2.5 Lift stencil in accordance with setting time in manufacturer's specifications.</p> <p>2.6 Insert specified control joints during placement and/or cut into applied finish after setting.</p> |
| 3. Apply stencil finishes with wet topping mix on dry concrete. | <p>3.1 Clean concrete surface of loose particles and debris.</p> <p>3.2 Prepare stencil finish so that any lapping maintains alignment and bond.</p> <p>3.3 Lay stencil carefully onto dry surface in accordance with specifications, ensuring alignment, bond and flat.</p> <p>3.4 Blend powdered mix consistently in accordance with manufacturer's specifications, load into hopper gun while wet, and spray under pressure on to dry stencil surface.</p> <p>3.5 Lift stencil in accordance with setting time in manufacturer's specifications.</p>                                                                                                       |
| 4. Apply stamp finishes.                                        | <p>4.1 Determine method of applying pattern in accordance with design finish and specifications.</p> <p>4.2 Check stamped finish pattern equipment for cleanliness and serviceability.</p> <p>4.3 Plan design layout and determine initial starting point in line with specifications and design.</p> <p>4.4 Prepare base colour and topping dust and apply to wet concrete in accordance with specifications.</p>                                                                                                                                                                                                                                            |

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|                                                             | <p>4.5 Apply colours as specified at random locations to create desired effect.</p> <p>4.6 Prepare and apply release agent to specifications.</p> <p>4.7 Use stamp to create design pattern and surface effect in accordance with specifications.</p> <p>4.8 Insert specified control joints during placement and/or cut into applied finish after setting.</p> <p>4.9 Clean concrete of release agent and other debris, and apply sealant in accordance with job specifications.</p>                                                                                                                             |
| 5. Apply exposed aggregate finishes.                        | <p>5.1 Incorporate selected aggregates into concrete mix to specifications.</p> <p>5.2 Lay concrete to ensure exposed stone is uniform.</p> <p>5.3 Remove surface matrix to expose aggregate.</p> <p>5.4 Apply chemical retardant to surface to allow ease of matrix removal and exposure of aggregate.</p> <p>5.5 Leave exposed aggregate, in accordance with design effect and specifications.</p> <p>5.6 Insert specified control joints during placement and/or cut into applied finish after setting.</p> <p>5.7 Apply sealant to surface in accordance with manufacturer's specifications.</p>              |
| 6. Apply textured finishes.                                 | <p>6.1 Determine method of applying texture in accordance with design finish and specifications.</p> <p>6.2 Prepare topping dust and apply in accordance with specifications.</p> <p>6.3 Float base colour into surface in accordance with specifications.</p> <p>6.4 Apply colours randomly, where specified, onto surface to create decorative type colourings.</p> <p>6.5 Apply finish with trowel or other tools to create design pattern and surface effect in accordance with specifications.</p> <p>6.6 Insert specified control joints during placement and/or cut into applied finish after setting.</p> |
| 7. Clean up after applying decorative finishes to concrete. | <p>7.1 Clear work area and dispose of, re-use or recycle materials in accordance with legislation, regulations, codes of practice and task requirements.</p> <p>7.2 Clean, check, maintain and store materials, tools and equipment in accordance with manufacturers' specifications and</p>                                                                                                                                                                                                                                                                                                                      |

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|  | workplace requirements. |
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## 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 CPCCCO3044A Carry out decorative finishes to 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 CPCCCO3044 Apply decorative finishes to concrete

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## Performance Evidence

To demonstrate competency in this unit, a person must apply decorative finishes to a minimum of twenty square metres of concrete, including:

- stencil finish with dry topping mix on wet concrete
- stencil finish with wet topping mix on dry concrete
- stamp finish
- exposed aggregate finish
- textured finish.

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 applying decorative finishes to concrete, 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 applying decorative finishes to concrete
- workplace requirements for undertaking all aspects of applying decorative finishes to concrete, including interpreting work orders and reporting problems using general construction terminology applicable to work tasks
- processes for interpreting manufacturers' specifications relating to applying decorative finishes to concrete

- interpreting task plans and specifications for applying decorative finishes to concrete, including use of signage and barricades and calculation of material quantity and quality requirements
- types, characteristics, uses and limitations of plant, tools and equipment used for applying decorative finishes to concrete
- processes, equipment, tools and materials for:
  - planning and preparing to apply decorative finishes to concrete
  - applying stencil finishes with dry topping mix on wet concrete
  - applying stencil finishes with wet topping mix on dry concrete
  - applying stamp finishes
  - applying exposed aggregate finishes
  - applying textured finishes
  - cleaning up after applying decorative finishes to concrete
- materials and equipment storage and maintenance, 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 to apply decorative finishes to 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.

## Links

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