



**Australian Government**

# **MSMPMC316 Finish cured concrete products**

**Release: 1**

# MSMPMC316 Finish cured concrete products

## Modification History

Release 1. New unit. Supersedes and is equivalent to PMC552053 Finish cured concrete products

## Application

This unit describes the skills and knowledge required to finish cured concrete products. It applies to all finishes applied to concrete before curing (including exposed aggregate) but after manufacturing operations up to final vibration and/or screeding the top surface flat.

This unit applies to operators who are required to take responsibility for own outputs and follow established procedures to check and prepare surfaces, apply finishing techniques and clean and seal surfaces. Operators are also required to work autonomously and apply their own judgement to interpret information; monitor processes; identify and address routine and non-routine problems and control hazards.

This unit applies to an individual working alone or as part of a team or group and in liaison with other shift team members, team leader and supervisor.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

## Pre-requisite Unit

Nil

## Competency Field

Operations

## Elements and Performance Criteria

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                    |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                  |
| 1. Check product prior to finishing              | 1.1 Check product identity and finish required according to specifications<br>1.2 Check product has been cured and is ready for finishing<br>1.3 Check type and size of aggregate and any special characteristics of concrete mix<br>1.4 Check for handling and other damage and report |

| <b>Elements</b>                                  | <b>Performance Criteria</b>                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                     |
|                                                  | 1.5 Set up finishing process                                                                                                                                                                                                                                                                                                                               |
| 2. Finish surface                                | 2.1 Perform initial finishing over product surface<br>2.2 Check for consistency, flatness and that other requirements have been met<br>2.3 Report products which are outside specification or which may not be able to be correctly finished<br>2.4 Monitor progress of finishing and readjust<br>2.5 Continue finishing until surface meets specification |
| 3. Check and seal coat                           | 3.1 Clean finished surface<br>3.2 Apply sealer coat<br>3.3 Monitor and adjust sealer coating thickness against relevant specification<br>3.4 Lift unit into store in accordance with work health and safety (WHS) requirements and support on protective pads                                                                                              |
| 4. Rectify routine problems                      | 4.1 Identify and rectify faults and equipment failure<br>4.2 Maintain records and log books of equipment operations<br>4.3 Identify non-routine problems and report to designated person                                                                                                                                                                   |
| 5. Control hazards                               | 5.1 Identify finishing hazards<br>5.2 Assess the risks arising from those hazards<br>5.3 Implement measures to control those risks                                                                                                                                                                                                                         |

## Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

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

## Unit Mapping Information

Release 1. New unit. Supersedes and is equivalent to PMC552053 Finish cured concrete products

## Links

Companion Volume Implementation Guides are available at VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>

# Assessment Requirements for MSMPMC316 Finish cured concrete products

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## Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- applied finish to meet specifications, including 1 or more of:
  - blasting
  - honing
  - polishing
  - etching
  - sealing
  - painting
  - grit and sand blasting
  - graffiti treatments
  - sprayed finishes on cured concrete
  - acid etching
- recognised possible causes of the following routine problems:
  - raw material variations
  - product and surface abnormalities
  - equipment abnormalities
  - process errors.
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## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- principles of concrete product formation and finishing
- common finishing methods, including:
  - blasting
  - honing
  - polishing
  - etching
  - sealing
  - painting

- grit and sand blasting
- graffiti treatments
- sprayed finishes on cured concrete
- acid etching
- the potential effects of variations in raw materials, equipment operation and processes in relation to quality of product
- routine problems and factors which may affect product quality or production output, their probable causes and relevant corrective actions
- manual handling and work health and safety (WHS) requirements relevant to work outcome
- finishing hazards:
  - their possible causes
  - potential consequences
  - risk control procedures.

## Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
  - finishing equipment and ancillary equipment
  - products to be finished
  - specifications, procedures and job sheets
- modelling of industry operating conditions, including:
  - routine and non-routine problems.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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