



Australian Government

MSMPMC314 Finish green concrete products

Release: 1

MSMPMC314 Finish green concrete products

Modification History

Release 1. New unit. Supersedes and is equivalent to PMC552051 Finish green concrete products

Application

This unit describes the skills and knowledge required to finish green concrete products. It applies to all finishes applied to concrete before curing 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 prepare the equipment and materials, interpret formulae and mixing specifications and finish the surface. 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. Prepare to surface finish green concrete	1.1 Check drawings and work orders for finish requirements 1.2 Check product against relevant standards and specification 1.3 Check required condition and set state of concrete 1.4 Prepare and mix surface finish 1.5 Prepare finish equipment

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Finish surface green concrete as required	2.1 Apply finish or spray surface 2.2 Inspect surface after initial finishing and patch or rework 2.3 Continue finishing and monitor finish 2.4 Inspect final finish after appropriate time and make any changes required to meet specification 2.5 Dispose of waste to requirements
3. Rectify routine problems	3.1 Identify and rectify faults and equipment failure 3.2 Maintain records and log books of equipment operations 3.3 Identify non-routine problems and report to designated person
4. Control hazards	4.1 Identify finishing hazards for green concrete products 4.2 Assess the risks arising from those hazards 4.3 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 PMC552051 Finish green 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 MSMPMC314 Finish green 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:

- finished green concrete products and applied finish to meet specifications, including 1 or more of the following:
 - fine wood float
 - rough wood float
 - hand steel float
 - broomed
 - helicopter steel float
 - raked finish
- sprayed concrete to make exposed aggregate
- applied sealers and curing compounds to wet concrete
- recognising possible causes of the following routine problems:
 - raw material variations
 - product and surface abnormalities
 - process errors.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- relevant Australian Standards
- principles of:
 - concrete mixing
 - veneer adhesion
 - concrete finishing
- common finishing methods, including:
 - fine wood float
 - rough wood float
 - hand steel float
 - broomed

- helicopter steel float
- spraying
- raked finish
- the potential effects of variations in raw materials and equipment operation and processes in relation to quality of product
- problems and factors which may affect product quality or production output, their probable causes and relevant corrective actions
- green concrete product finishing hazards and:
 - their possible causes
 - potential consequences
 - risk control procedures.
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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:
 - green concrete product finishing equipment and ancillary equipment
 - materials 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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