



Australian Government

MSMPMC330 Produce architectural precast concrete

Release: 1

MSMPMC330 Produce architectural precast concrete

Modification History

Release 1. New unit. Supersedes and is equivalent to PMC553050 Produce architectural precast concrete

Application

This unit describes the skills and knowledge required to produce architectural precast concrete products.

This unit applies to experienced operators who are required to take responsibility for own outputs and follow established procedures to prepare mould assemblies, fittings and reinforcement (not pre-stressed) and mould, cure and strip the product. 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.

The experienced operator may work 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 mould for casting	1.1 Check casting schedule, drawings and job specification 1.2 Check finish and veneer requirements for any or all faces, edges or surfaces 1.3 Prepare veneering equipment and formwork to temporarily support veneers and backing concrete
2. Prepare reinforcement	2.1 Check quantities, type, size and shape of reinforcement supplied

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	against drawings and schedules 2.2 Place reinforcement and check concrete covers 2.3 Complete mould assembly 2.4 Insert lifting devices, lugs, fixing and other fittings according to drawings and specifications 2.5 Seal mould
3. Cast concrete	3.1 Pour concrete in correct sequence according to work schedule 3.2 Check adequate vibration 3.3 Complete casting process to plans and specification 3.4 Prepare test samples and/or cylinder as required by work instructions 3.5 Screed to a flat, accurate surface in preparation for finishing 3.6 Finish green concrete as required 3.7 Wet patch as required
4. Cure product	4.1 Cover and cure mould in accordance with standard procedure and any special requirements 4.2 Monitor curing to achieve specified stripping strength
5. Strip and store product	5.1 Safely remove mould parts at appropriate time, with care, and inspect for damage 5.2 Lift unit using appropriate lifting equipment and lifting methods 5.3 Arrange storage using protective pads to ensure against damage
6. Respond to problems	6.1 Identify routine and non-routine problems in the equipment or process 6.2 Rectify problems using appropriate solution within area of responsibility 6.3 Report problems outside area of responsibility to designated person
7. Control hazards	7.1 Identify architectural precast concrete production hazards 7.2 Assess the risks arising from those hazards 7.3 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

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Links

Companion Volume Implementation Guides are available at VETNet -

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