



Australian Government

MSMPMC320 Demould concrete products

Release: 1

MSMPMC320 Demould concrete products

Modification History

Release 1. New unit. Supersedes and is equivalent to PMC552058 Demould concrete products

Application

This unit describes the skills and knowledge required to demould concrete products and maintain moulds. It applies to timber, glass fibre, metal casing, latex rubber, plaster and other moulds.

This unit applies to operators who are required to take responsibility for own outputs and follow established procedures to dismantle moulds; inspect moulds and products for faults; clean and reassemble moulds and maintain mould part stocks. 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

Operational/technical

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. Dismantle, clean and inspect mould	1.1 Remove nuts and bolts as required 1.2 Remove mould 1.3 Identify product faults from visual inspection 1.4 Identify mould faults from visual inspection 1.5 Dismantle mould according to work instructions 1.6 Check condition of all mould parts

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.7 Clean mould parts
2. Reassemble mould	2.1 Identify product to be made from specifications 2.2 Interpret mould drawings or plans 2.3 Select and check required mould parts 2.4 Use correct mould setup jig 2.5 Assemble mould 2.6 Place and fix reinforcement cage 2.7 Check cover is adequate and fix or report 2.8 Check mould dimensions and tolerance 2.9 Check mould for joint leakage and correct
3. Lubricate mould	3.1 Lubricate mould to standard 3.2 Store mould in correct location
4. Maintain mould part stock control	4.1 Check stocks of spare parts 4.2 Advise supervisor of stock required, parts used and date of completed mould
5. Rectify routine problems	5.1 Identify and rectify faults and equipment failure 5.2 Maintain records and log books of equipment operations 5.3 Identify non-routine problems and report to designated person
6. Control hazards	6.1 Identify demoulding hazards 6.2 Assess the risks arising from those hazards 6.3 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 PMC552058 Demould 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 MSMPMC320 Demould 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:

- demoulded at least 1 concrete product, including:
- monitoring the following key variables to ensure product integrity and conformance to specification:
 - condition of mould parts
 - mould part stock levels
 - placement of reinforcing and accessories
- recognising possible causes of the following routine problems:
 - raw material and mix variations
 - mould anomalies
 - casting and operating conditions
 - process errors.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- common types of moulds, mould parts and their role
- causes and impact of mould wear
- indicators of common product and mould faults
- function of mould lubricants
- role of reinforcement, types of reinforcement and significance of concrete cover
- the potential effects of variations in raw materials and equipment operation 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
- hazards from pre-stressed reinforcement
- demoulding 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:
 - concrete products and moulds
 - 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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