



Australian Government

PMC552057 Finish casting operation

Release: 1

PMC552057 Finish casting operation

Modification History

Release 1. Supersedes and is equivalent to PMC552057B Finish casting operation

Application

This unit of competency covers the skills and knowledge required to finish casting operations by fitting reinforcement and accessories to products before curing.

This unit of competency applies to operators who are required to ensure the mould is stable, position reinforcement and fittings, top up and cover mould and rectify routine problems.

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

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Operations

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

| | | | |
|---|---|-----|---|
| 1 | Adjust and level mould and accessories | 1.1 | Ensure position of mould base is level and stabilised according to standard operating procedures (SOPs) |
| | | 1.2 | Adjust level of pipes and other accessories already fitted as required |

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| 2 | Position and fit reinforcement and accessories | 2.1 | Place reinforcement in green concrete according to work as required |
| | | 2.2 | Place fittings/accessories in concrete to specification |
| 3 | Top up mould and finish | 3.1 | Top up and cover mould according to work instructions |
| | | 3.2 | Finish and patch product to specification |
| | | 3.3 | Clean mould and work site as required by good occupational hygiene practices |
| 4 | Rectify routine problems | 4.1 | Identify the range of faults that can occur during the operation |
| | | 4.2 | Determine and rectify fault causes by procedures/work instructions |
| | | 4.3 | Identify and rectify equipment failure causes in accordance with procedures/work instructions |
| | | 4.4 | Ensure appropriate records and log books of equipment operations are maintained to meet procedures/work instructions |
| | | 4.5 | Identify non-routine problems and report to designated person |
| 5 | Control hazards | 5.1 | Identify hazards from the job to be done |
| | | 5.2 | Identify other hazards in the work area |
| | | 5.3 | Assess the risks arising from those hazards |
| | | 5.4 | Implement measures to control those risks in line with procedures |

Foundation Skills

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

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

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Regulatory framework The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used.

Applicable legislation, regulations, standards and codes of practice include:

- health, safety and environmental (HSE) legislation, regulations and codes of practice relevant to the workplace, equipment and production processes and hazardous materials
- Australian/international standards relevant to the materials being used and products being made
- any relevant licence and certification requirements.

All operations to which this unit applies are subject to stringent HSE requirements, which may be imposed through state/territory or federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and such requirements the legislative requirements take precedence.

Procedures All operations must be performed in accordance with relevant procedures.

Procedures are written, verbal, visual, computer-based or in some other form, and include one or any combination of:

- job cards
- drawings
- emergency procedures
- work instructions
- SOPs
- safe work method statements (SWMS)
- formulas/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant.

Problems Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of:

- matching concrete to specification
- incorrect type or position of reinforcement
- incorrect type or position of fittings
- mould wear/damage
- variations in quality/amount/distribution of concrete in mould.

Known solutions are drawn from one or more of:

- procedures
- training
- remembered experience.

Non-routine problems must be reported according to according to relevant procedures.

Hazards

Hazards must be identified and controlled. Identifying hazards requires consideration of:

- heat, smoke, dust, vapours or other atmospheric hazards
- weight, shape, volume of materials to be handled
- hazardous products and materials
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- electricity
- gas
- gases and liquids under pressure
- noise
- rotational equipment or vibration
- plant services (steam, condensate, cooling water, etc)
- structural hazards
- equipment failures
- machinery, equipment and product mass
- limited head spaces or overhangs
- working at heights
- working in restricted or confined spaces
- other hazards that might arise.

Unit Mapping Information

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Links

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>