



Australian Government

PMC552024 Hand mould products

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to PMC552024C Hand mould products.

Application

This unit of competency covers the skills and knowledge required to hand mould products using clay, ceramic, plaster and other materials.

This unit of competency applies to operators who are required to select and prepare moulds, mould and remove the product, finish and store the product 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	Assemble and prepare the mould or former	1.1	Establish a safe working environment to procedures
		1.2	Identify and prepare the appropriate mould or former
		1.3	Level and secure the mould or former to procedures

- 1.4 Check that the base is stabilised and correctly mounted as required to facilitate rolling or turning out
 - 1.5 Position inserts or loose pieces as required
 - 1.6 Apply the correct stripping agent
- 2 **Mould materials**
- 2.1 Prepare the material mix or obtain the material from the batch preparation unit
 - 2.2 Provide an adequate supply of material to meet production requirements
 - 2.3 Introduce material to the work piece cavity and compact to procedures
 - 2.4 Check inserts or loose pieces and secure to avoid movement during moulding
 - 2.5 Employ safe working practices consistent with procedures
 - 2.6 Roll and strip/turn out the component for finishing
- 3 **Finish the component/
product**
- 3.1 Repair defects occurring during the moulding process
 - 3.2 Remove inserts or loose pieces and replace in mould or former
 - 3.3 Prepare the surface of the component for the application of any surface finishes
 - 3.4 Cure or dry the components to specification
 - 3.5 Return mould and/or segments for re-use or storage in accordance with requirements
- 4 **Rectify routine problems**
- 4.1 Identify the range of faults that can occur during the operation
 - 4.2 Determine and rectify fault causes according to procedures
 - 4.3 Identify and rectify equipment failure causes according

- to procedures
- 4.4 Make sure appropriate records and log books of equipment operations are maintained to meet procedures
 - 4.5 Identify non-routine problems and report to designated person
- 5 **Inspect and store components**
- 5.1 Inspect component for defects
 - 5.2 Store the component to specifications and 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
- emergency procedures
- work instructions
- standard operating procedures (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:

- variations in materials
- product faults
- mould problems.

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.

Records and reports Records include one or more of:

- log books/sheets
- electronic records
- job/work sheets
- other records used for the smooth running of the plant.

Reports include one or more of:

- paper or electronic-based logs and reports
- verbal/radio reports
- reporting items found which require action.

Unit Mapping Information

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Links

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