



**Australian Government**

# **PMC552021 Operate manual glazing equipment**

**Release: 1**

# PMC552021 Operate manual glazing equipment

## Modification History

Supersedes and is equivalent to PMC552021C Operate manual glazing equipment.

## Application

This unit of competency covers the skills and knowledge required to operate manual glazing equipment as typically used in the production of clay and ceramic products. It applies to a wide range of products, such as cups, saucers, tiles, bricks, bathroom fittings and insulators. The glazing may be done in a large production context or in a smaller craft context.

This unit of competency applies to operators who are required to prepare materials and equipment, use the equipment to decorate and apply glaze to products and rectify routine problems.

This unit of competency does not apply to forming, drying or firing of products, or the setting up of automatic glazing equipment.

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	<b>Prepare glazing and decorating equipment</b>	<ul style="list-style-type: none"> <li>1.1 Determine glazing and decorating requirements from production schedule</li> <li>1.2 Adjust equipment as required</li> <li>1.3 Connect glaze or surface materials to glazing and decorating equipment</li> <li>1.4 Check equipment operation and safety specifications</li> </ul>
2	<b>Apply glaze or surface materials to formed products</b>	<ul style="list-style-type: none"> <li>2.1 Set up glaze application for operation</li> <li>2.2 Apply glaze to produce the specified thickness</li> <li>2.3 Recover excess or spilt glaze for treatment or recycling</li> <li>2.4 Shut down and unload equipment at conclusion of glazing to procedures, ensuring that products are stored in the appropriate area</li> </ul>
3	<b>Print fired products</b>	<ul style="list-style-type: none"> <li>3.1 Operate printing equipment to produce a correctly registered decoration</li> <li>3.2 Report printing equipment faults to the designated person</li> <li>3.3 Shut down and unload equipment at conclusion of printing to specifications, ensuring that products are stored in the appropriate area</li> </ul>
4	<b>Repair glaze faults</b>	<ul style="list-style-type: none"> <li>4.1 Apply glaze repair techniques to produce a properly finished product</li> <li>4.2 Remove all glaze faults</li> <li>4.3 Re-glaze repaired area with the specified glaze</li> <li>4.4 Clear work area at the conclusion of the glaze repairing to procedures</li> </ul>

- 4.5 Store products in the appropriate area
- 5 **Rectify routine problems**
  - 5.1 Identify the range of faults that can occur during the operation
  - 5.2 Determine and rectify fault causes according to procedures
  - 5.3 Identify and rectify equipment failure causes according to procedures
  - 5.4 Complete appropriate records and log books of equipment operations to meet procedures
  - 5.5 Identify non-routine problems and report to designated person
- 6 **Control hazards**
  - 6.1 Identify hazards from the job to be done
  - 6.2 Identify other hazards in the work area
  - 6.3 Assess the risks arising from those hazards
  - 6.4 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
- 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:

- glaze application faults (e.g. non-adherence or runs)
- applicator equipment problems
- product surface unsuitable for glaze application
- glaze inconsistency
- contamination.

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.

**Equipment** Equipment includes one or more of:

- dipping equipment
- hand spray equipment
- screen printers
- silk screens
- belt feed hopper
- vibrating hoppers.

**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

Supersedes and is equivalent to PMC552021C Operate manual glazing equipment.

## Links

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