



Australian Government

PMC552072 Produce fibrous plasterboard

Release: 1

PMC552072 Produce fibrous plasterboard

Modification History

Release 1. Supersedes and is equivalent to PMC552072B Produce fibrous plasterboard

Application

This unit of competency covers the skills and knowledge required to produce fibrous plasterboard sheets.

This unit of competency applies to operators who are required to make the plaster mix; manually add the fibre; form, cut and dry the sheets 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	Prepare the production area	1.1	Ensure the production area is clean and free from debris and waste
		1.2	Ensure the production area is ready to receive the plaster mixture and that all equipment is ready

- 1.3 Apply stripping agent to the production facility to ensure ease of removal of the product after setting of the plaster mix
- 2 **Mix plaster**
 - 2.1 Ensure that appropriate materials are available to facilitate mixing and production of plaster mix
 - 2.2 Check that the mixer is clean and free from debris and that there are no obstructions or contaminants present
 - 2.3 Check that the mixing equipment is safe to use
 - 2.4 Introduce materials to the mixer and add temper water to specification
 - 2.5 Mix the plaster for the required time and consistency
 - 2.6 Discharge the mixed plaster from the mixer when it reaches the desired consistency
- 3 **Produce fibrous plasterboard**
 - 3.1 Insert the fibre into the plaster mix
 - 3.2 Form the plasterboard to the desired size and screed off
 - 3.3 Check the plaster sheets for entrapped air or the inclusion of unwanted materials or contamination
 - 3.4 Ensure product is of the required uniform thickness
 - 3.5 Allow the product to dry and prepare to strip the product
- 4 **Strip and finish the product**
 - 4.1 Cut the finished product to the required dimensions
 - 4.2 Strip the product and inspect for imperfections and distortion
 - 4.3 Hang the product for final drying
 - 4.4 Remove the product from the dryer and undertake final inspection
 - 4.5 Stack the product according to size and prepare for storage or shipment

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| 5 | Control hazards | 5.1 | Identify hazards in mixing and casting areas |
| | | 5.2 | Assess the risks arising from those hazards |
| | | 5.3 | Implement measures to control those risks in line with procedures and duty of care |
| | | | |
| 6 | Respond to problems | 6.1 | Identify possible problems in equipment or process |
| | | 6.2 | Determine problems needing action |
| | | 6.3 | Determine possible fault causes |
| | | 6.4 | Rectify problem using appropriate solution within area of responsibility |
| | | 6.5 | Follow through items initiated until final resolution has occurred |
| | | 6.6 | Report problems outside area of responsibility to designated person |

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
- 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:

- inappropriate material specifications
- introduction of contaminants
- inclusion of air
- distortion or section thickness variations.

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/>