



**Australian Government**

# **PMBPROD284 Operate open flame moulding equipment**

**Release: 1**

# PMBPROD284 Operate open flame moulding equipment

## Modification History

Release 1. Supersedes and is equivalent to PMBPROD284B Operate open flame moulding equipment

## Application

This unit of competency covers the skills and knowledge required to operate open flame moulding equipment.

This competency applies to operators who are required to carry out pre-start, start and stop procedures; monitor and adjust the equipment; maintain feed; and recognise routine and non-routine problems and take appropriate action.

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

Production

## 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>Check work requirements</b>	1.1	Identify work requirements from procedures
		1.2	Recognise hazards and adopt steps required to ensure safety

- 1.3 Identify quantity and quality of product required and any special requirements
  - 1.4 Examine process control cards to identify adjustments and operating parameters
  - 1.5 Identify procedures for obtaining raw materials
  - 1.6 Check with supervisor/appropriate person if requirements are not in accordance with usual practice
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- 2 **Conduct pre-start checks as required**
    - 2.1 Check safety gates and guards are in position and working
    - 2.2 Check set-up speed and ratios for rotation according to specification sheets
    - 2.3 Check raw materials for conformity to specifications
    - 2.4 Undertake other pre-start checks in accordance with procedures
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- 3 **Operate equipment**
    - 3.1 Start machine safely and correctly when required
    - 3.2 Check product/process is within required limits
    - 3.3 Collect products and store as required
    - 3.4 Check mould to ensure it is rotating on axes at correct speed
    - 3.5 Monitor control panel in accordance with procedures/work instructions
    - 3.6 Check product is in specification/to required quality standard
    - 3.7 Maintain supply of materials as required
    - 3.8 Complete logs and records when required
    - 3.9 Collect and reprocess/discard scrap/trim and other materials in accordance with procedures
    - 3.10 Clean up equipment and work area in accordance with procedures

- 3.11 Shut down machine safely and correctly in accordance with procedures/work instructions
  
- 4 **Resolve routine problems**
  - 4.1 Identify likely faults that occur during the operation
  - 4.2 Identify and take action on causes of routine faults in accordance with procedures
  - 4.3 Make sure appropriate records and log books of equipment operations are maintained to meet procedures
  - 4.4 Identify non-routine problems and report 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:

- 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.

**Tools and equipment** Tools and equipment include:

- open flame moulding equipment.

Additional tools and equipment will be selected as required from:

- hand tools used in the process
- material loading equipment used for loading of raw materials
- relevant personal protective equipment (PPE).

## **Hazards**

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

- weight, shape, volume of materials to be handled
- hazardous products and materials
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- rotational equipment or vibration
- high temperatures
- smoke, dust, vapours or other atmospheric hazards
- electricity
- gas
- gases and liquids under pressure
- structural hazards
- equipment failures
- machinery, equipment and product mass
- other hazards that might arise.

## **Routine problems**

Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of:

- blockages in gas burner
- mould incorrectly placed on machine
- variations in materials
- contamination of materials/additives
- temperature profile issues
- product wall thickness profile
- product too thick/too thin.

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.

## **Unit Mapping Information**

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## **Links**

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