



Australian Government

PMBPROD283 Demould product

Release: 1

PMBPROD283 Demould product

Modification History

Release 1. Supersedes and is equivalent to PMBPROD283B Demould product

Application

This unit of competency covers the skills and knowledge required to remove products from moulds as typically used in the rotational moulding, urethane foam, thermoforming and composites sector.

This unit of competency applies to operators who are required to check product, materials and equipment; take product off mould; clean moulds; apply release agents; 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 Check work requirements | 1.1 Identify work requirements from production plan or request |
| | 1.2 Check product, materials and equipment meet |

- requirements for job
- 1.3 Recognise requirements which may not be in accordance with usual practice
 - 1.4 Ask questions of appropriate person to confirm non-standard job specifications
 - 1.5 Identify hazards associated with the job and take appropriate action
 - 1.6 Perform other pre-operational checks in accordance with procedures
- 2 **Demould product to procedures**
- 2.1 Open mould
 - 2.2 Remove product in accordance with procedures
 - 2.3 Clean surface of mould and apply release agent as required
 - 2.4 Maintain supply of materials as required
 - 2.5 Complete logs and records as required
 - 2.6 Collect and segregate scrap, waste and other materials as required
 - 2.7 Keep equipment and work area clean
- 3 **Respond to routine problems in accordance with procedures.**
- 3.1 Recognise known faults that occur during the operation
 - 3.2 Identify and take action on causes of routine faults
 - 3.3 Log problems as required
 - 3.4 Identify non-routine process and quality problems and take appropriate action

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)
- formulae/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant.

Tools and equipment Tools and equipment include one or more of:

- applicators
- dispensers

- measuring devices
- cutters
- cleaning utensils
- powered equipment.

Additional tools and equipment will be selected as required from:

- hoists/lifting equipment not requiring any special permits or licences
- manual handling aids, such as hand carts and trolleys
- pedestrian forklifts
- relevant personal protective equipment (PPE).

Hazards

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

- power tools, leads and power supplies
- hazardous products and materials
- blades and cutting equipment
- protrusions or obstructions
- slippery surfaces, spills or leaks
- rotational equipment or vibration
- 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:

- badly prepared mould
- leakage/spillage of raw materials
- incorrect quantity of materials
- contaminated materials/additives
- equipment faults
- mould damage
- malformed product
- damage of product on removal

- cracking
- warping
- poor surface finish.

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/>