



Australian Government

PMBPREP201 Prepare moulds for composites production

Release: 1

PMBPREP201 Prepare moulds for composites production

Modification History

Release 1. Supersedes and is equivalent to PMBPREP201B Prepare moulds for composites production

Application

This unit of competency covers the skills and knowledge required to perform demoulding and preparation of composite moulds.

This unit of competency applies to production support, operators or those in similar roles who are required to check moulds for conformity to requirements, prepare mould surfaces gel coating or thermoforming, check materials are correct, recognise and resolve routine problems to procedure and complete logs and reports.

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

Preparation

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 | <div style="display: flex; flex-direction: column; gap: 10px;"><div>1.1 Identify work requirements from production plan or request</div><div>1.2 Check mould, materials and equipment meet requirements for job</div><div>1.3 Recognise requirements which may not be in accordance</div></div> |
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		with usual practice
	1.4	Ask questions of appropriate person to confirm unusual practice
	1.5	Identify hazards associated with the job and take appropriate action
2	Prepare mould surfaces	2.1 Prepare surfaces to procedures
	2.2	Make temporary repairs of minor mould surface defects as needed
	2.3	Clean up equipment and work area when surface preparation is completed
3	Apply mould release system, as required	3.1 Select the correct system for the job
	3.2	Apply to mould surfaces in accordance with manufacturer specifications
	3.3	Tape-test the surface release system
4	Mask-up mould	4.1 Select suitable masking tape
	4.2	Apply masking tape and other materials
5	Respond to routine problems to procedures	5.1 Recognise known faults that occur during the operation
	5.2	Identify and take action on causes of routine faults
	5.3	Log problems as required
	5.4	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, manual handling 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 one or more of:

- applicators (such as brushes and spray gun)
- cleaning tools (such as plastic scrapers, buffs and polishers)
- cutters
- measuring devices
- relevant personal protective equipment (PPE).

Problems

Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of:

- mould damage/cracks on the mould
- equipment wear and breakage
- overuse of tools, requiring rework
- build up on mould surface
- variations in materials or contamination of materials.

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
- hazardous products and materials
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- electricity
- gas
- gases and liquids under pressure
- 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.

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=932aacef-7947-4c80-acc6-593719fe4090>