



Australian Government

PMBPROD221E Operate rotational moulding equipment

Release: 1

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Modification History

Release 1. Unit code changed. Application change. Elements and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMBPROD221 Operate rotational moulding equipment.

Application

This unit describes the skills and knowledge required to operate rotational moulding equipment.

This unit applies to an individual working alone or as part of a team.

This unit principally refers to general and routine machine operation and the knowledge requirements for production undertaken with supervision.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

Nil

Competency Field

Production – Rotational Moulding

Elements and Performance Criteria

Elements	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 requirements from production request or job specifications 1.2 Verify polymer materials meet requirements for job 1.3 Perform pre-operational checks including checking for and acting on hazards
2. Operate rotational moulding equipment	2.1 Check process is operating according to equipment specifications and job requirements 2.2 Ensure moulds are ready for next operation according to job requirements 2.3 Monitor and maintain supply of polymer to support operation of

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	equipment 2.4 Demould products and store according to job requirements and workplace procedures 2.5 Accurately complete workplace production output and polymer usage logs and records 2.6 Apply waste management strategies to collect and segregate scrap, trim and other materials according to workplace procedures 2.7 Clean equipment and work area according to operational and workplace procedures 2.8 Pause and stop machine cycle in normal and abnormal circumstances according to workplace procedures
3. Respond to process control variances	3.1 Recognise and log process control variances and their issues 3.2 Accurately maintain records and logbooks

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

- Numeracy skills to interpret technical information and equipment readings.
- Reading skills to interpret specifications and workplace procedures.
- Writing and oral communication skills to record and report on rotational moulding equipment operations.

Other foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to PMBPROD221 Operate rotational moulding equipment.

Links

Companion Volume implementation guides are found in VETNet –

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

Assessment Requirements for PMBPROD221E Operate rotational moulding equipment

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- operate rotational moulding equipment at least once to meet work requirements.

Knowledge Evidence

There must be evidence the candidate has knowledge of

- the mechanical function of rotational moulding equipment, the machine components and ancillary equipment
- principles of operation of the equipment, including the heating and cooling system for this equipment
- rotational moulding production workflow sequences and materials demand
- key variables that may affect product quality or production output, including heating and cooling cycles
- typical quality standards at each stage of production
- typical process and product problems, including early warning signs, possible causes and corrective actions
- organisational procedures relevant to the work environment or job role, including procedures for the emergency shutdown of equipment
- hazards that may arise in the job or work environment, and:
 - their possible causes
 - potential consequences
 - appropriate risk controls.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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