



**Australian Government**

# **PMBPREP301E Set up and prepare for batch production**

**Release: 1**

## PMBPREP301E Set up and prepare for batch production

### Modification History

Release 1. Unit code and title changed. Application changed. Elements and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMBPREP301 Set up and prepare for production.

### Application

This unit describes the skills and knowledge required to prepare materials and equipment for production in plastics and rubber polymer processing with batch, one-off or non-standard production lots.

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

The unit principally refers to both the universal set-up and preparation program, and more specifically the rotational moulding (rotomoulding) process and similar polymer sectors, as it is an exemplar of batch production set-up techniques.

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

Preparation – Rotational Moulding

### Elements and Performance Criteria

| Elements  | Performance Criteria  |
|---|---|
| <p>Elements describe the essential outcomes.</p> <p>1. Select equipment and materials</p> | <p>Performance criteria describe the performance needed to demonstrate achievement of the element.</p> <p>1.1 Identify equipment and materials requirements from job specifications</p> <p>1.2 Identify special tooling requirements and set up according to job and equipment specifications</p> <p>1.3 Identify production objectives and timelines from job specifications</p> <p>1.4 Verify product specifications from product request</p> <p>1.5 Plan work processes, noting key quality characteristics, check</p> |

| <b>Elements</b>                                   | <b>Performance Criteria</b>   |
|---|---|
| Elements describe the essential outcomes.         | Performance criteria describe the performance needed to demonstrate achievement of the element.   |
|   | points and activities where other personnel will be involved  |
| 2. Prepare tools, equipment and materials         | 2.1 Source required tools and equipment from workplace storage<br>2.2 Ensure required materials are correctly located for commencement of production  |
| 3. Set up and check production process            | 3.1 Set production process including work process plan to meet requirements<br>3.2 Set machine control parameters according to machine and job specifications<br>3.3 Obtain clearances from appropriate personnel for production to commence<br>3.4 Start up equipment and check function and performance against expected standards<br>3.5 Adjust equipment control settings provisionally according to equipment specifications<br>3.6 Check process control settings and materials performance against job specifications and expected output quality<br>3.7 Record production process data including required adjustments within specification ranges according to workplace documentation requirements |
| 4. Anticipate and solve process control variances | 4.1 Recognise existing or potential process control variances and their causes<br>4.2 Determine, prioritise and implement remedial and preventative actions based on identified issues and causes<br>4.3 Monitor process control variances and corrective actions taken until resolved<br>4.4 Identify possible system or process improvements and make recommendations to relevant personnel   |

## Foundation Skills

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

- Numeracy skills to interpret technical specifications and equipment readings.
- Reading skills to interpret specifications and workplace procedures.

- Writing and oral communication skills to record and report on batch production set-up and preparation, and process control variances.

*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 PMBPREP301 Set up and prepare for production.

## **Links**

Companion Volume implementation guides are found in VETNet – -

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