



Australian Government

PMBPROD300E Produce products

Release: 1

PMBPROD300E Produce products

Modification History

Release 1. Unit code changed. Application changed. Elements and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMBPROD300 Produce products.

Application

This unit covers the skills and knowledge required to operate, control and optimise processes to produce products. It applies to organisation-specific processes that are not covered by other PMB-coded units of competency.

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

The unit principally refers to advanced operators who must demonstrate practical, theoretical and technical knowledge and well-developed skills in situations that require some discretion and judgement.

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 – Generic

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. Plan work requirements	1.1 Identify and check materials required, including additives and regrind and their amounts or percentages, from job specifications 1.2 Identify equipment and processes required for production and upstream and downstream operations from job specifications 1.3 Perform pre-operational checks including checking for and controlling hazards 1.4 Identify and check emergency stops, guards and controls 1.5 Identify checks and testing processes required for equipment, materials, quality and production management to meet job

Elements Elements describe the essential outcomes.	Performance Criteria Performance criteria describe the performance needed to demonstrate achievement of the element.
	requirements 1.6 Perform housekeeping tasks to support work to be undertaken 1.7 Identify waste management strategies to collect excess, discarded or nonconforming materials to be disposed of, recycled or reprocessed according to workplace procedures
2. Start up equipment or process	2.1 Set production process according to equipment specifications and job requirements, and adjust process to optimise output based on selected materials 2.2 Set up and adjust equipment or process according to equipment and job specifications 2.3 Verify materials are correct against job specifications 2.4 Set up date, batch and materials markings according to workplace procedures 2.5 Undertake other pre-startup checks according to equipment specifications and workplace procedures 2.6 Start up moulding process
3. Operate and make adjustments to equipment or process	3.1 Start up and operate equipment or process, and make adjustments to settings to meet job specifications 3.2 Ensure process is operating according to equipment specifications and workplace procedures 3.3 Follow checking and testing processes to assess if output meets job specifications and quality standards, and apply strategies for managing nonconforming outputs 3.4 Maintain continuity of process to support production 3.5 Work efficiently to minimise scrap and trim 3.6 Clean work area, and clean, adjust and lubricate equipment according to equipment specifications and workplace procedures
4. Shut down equipment	4.1 Determine type of shutdown and process to be followed from equipment instructions and workplace procedures 4.2 Purge machine using appropriate methods and materials 4.3 Shut down equipment according to equipment instructions and workplace procedures 4.4 Complete equipment clean-up and post-production adjustments according to equipment instructions

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	4.5 Put guards, locks and notices in place to prevent inadvertent startup 4.6 Accurately complete workplace shutdown documentation 4.7 Clean and clear work area after shutdown in readiness for next startup
5. Anticipate and solve process control variances	5.1 Recognise existing or potential process control variances and their causes 5.2 Determine, prioritise and implement remedial and preventative actions based on identified issues and causes 5.3 Monitor process control variances and corrective actions taken until resolved 5.4 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 production operations, equipment shutdowns 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 PMBPROD300 Produce products.

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 PMBPROD300E Produce products

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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:

- produce products at least once to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- function and operating principles of machinery and components, and ancillary equipment
- the criteria for overall process/equipment readiness for the process or equipment being used
- production workflow sequences and materials demand
- products, materials and material characteristics
- types and behaviour of materials in relation to key process variables
- polymer properties and their interactions with process conditions
- impact of variations in raw materials and equipment operation in relation to final product
- typical quality standards required at each stage of production
- key variables that may affect product quality and production output, including:
 - temperatures
 - speed
 - pressures
 - colour
 - cycle time/process timing
 - output rate
 - product weight
 - product integrity and general conformance to specification
- impact of mechanical, hydraulic, pneumatic and electrical/electronic principles of the production process
- typical and atypical process and product problems, including early warning signs, possible causes and corrective actions
- methods and materials for purging equipment, and their combinations and applications
- organisational procedures relevant to the work environment and job role, including procedures for the emergency shutdown of equipment

- hazards that may arise in the job/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.

Links

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