



Australian Government

PMBPREP303E Set up equipment for continuous operation

Release: 1

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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 PMBPREP303 Set up equipment for continuous operation.

Application

This unit describes the skills and knowledge required to set up equipment for continuous production processes and operations.

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

The unit principally refers to the standardised set-up process that should be understood by the technician, and complements tasks related to taking a machine out of production.

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 – Extrusion

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. Identify production requirements	1.1 Read and interpret specifications for production run and equipment to identify production requirements 1.2 Apply production control requirements for production and warm-up time based on equipment specifications 1.3 Prepare for quality checks at key stages in production process to meet expected output standards 1.4 Plan for assembly requirements for items of production and downstream equipment or specialised componentry from job specifications and workplace procedures
2. Set up equipment	2.1 Assess work area for adequate processing space against

Elements Elements describe the essential outcomes.	Performance Criteria Performance criteria describe the performance needed to demonstrate achievement of the element.
	equipment specifications and workplace procedures 2.2 Configure equipment and components according to production process requirements 2.3 Install guards, warning devices and cut-offs according to equipment specifications, work health and safety regulations and workplace procedures 2.4 Check all connecting components and services for integrity and effectiveness 2.5 Select suitable equipment for production requirements based on equipment specifications and previous production processes 2.6 Equip workstations with procedural information for operations and quality management 2.7 Assess work area for operator ergonomic efficiency and safe entry and exit points
3. Support operators to perform continuous operation tasks	3.1 Describe particular requirements for machine adjustments, materials characteristics, quality specifications and key production stages to operators based on equipment and job specifications 3.2 Describe standard operating procedures and work health and safety regulations related to continuous operations to operators 3.3 Identify and describe contingency strategies for process faults, quality and work health and safety issues, materials supply issues and quality machine malfunctions to operators 3.4 Provide suitable mechanism for operators to ask questions and clarify tasks and processes 3.5 Compare machine setting ranges with documented requirements
4. Produce first-off production sample	4.1 Start process according to workplace operating procedures 4.2 Observe product quality throughout process and compare with standards 4.3 Use observations of process outcomes to identify settings that need to be fine-tuned and other production variables that should be altered to achieve desired product quality 4.4 Assess quality of final product against required standards
5. Fine-tune process	5.1 Ensure workplace documentation is up-to-date, including noting any variances between actual production and documented set-up conditions

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Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	5.2 Modify machine settings and process instructions to ensure successful continuous operation is maintained 5.3 Obtain approval from relevant personnel for final sample output to serve as quality benchmark 5.4 Advise operators of finalised process and ensure process is documented according to workplace documentation requirements

Foundation Skills

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

- Numeracy skills to interpret engineering and equipment specifications.
- Reading skills to identify production information pertinent to equipment set-up.
- Writing and oral communication skills to hand over equipment operation to operators and document finalised processes.

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 PMBPREP303 Set up equipment for continuous operation.

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 PMBPREP303E Set up equipment for continuous operation

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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:

- set up equipment for continuous operation at least once to meet production requirements.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- function and operating principles of equipment, machine components and ancillary equipment, including production control requirements:
 - pressure
 - speed
 - temperature
 - product specifications
- principles of continuous operation and how these may impact the approach to equipment set-up
- suitability of equipment selection for dies, moulds and jigs
- processes for checking equipment integrity and effectiveness
- products, materials and material characteristics
- typical quality standards required at each stage of production
- key variables that may affect product quality and production output
- typical and atypical process and product problems, including early warning signs, possible causes and corrective actions
- organisational procedures relevant to the work environment or job role
- 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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