



Australian Government

PMBPROD245E Fabricate products with rubber or plastics

Release: 1

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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 PMBPROD245 Fabricate materials.

Application

This unit describes the skills and knowledge required to fabricate shaped assemblies using polymer sheeting, rods or bars.

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

The unit principally refers to a largely manual assembly process for all kinds of rubber and plastic and usually involves the use of jigs and fixtures of special designs.

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 – Plastics Fabrication

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, including plans, patterns and designs from job specifications 1.2 Perform housekeeping tasks to prepare for work to be undertaken
2. Conduct pre-production checks	2.1 Perform pre-operational checks including checking for and acting on hazards 2.2 Set up tools, jigs, fixtures and equipment to support fabrication process 2.3 Undertake other pre-production checks including ensuring availability of safety equipment

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
3. Form materials to shape	3.1 Arrange materials in order they will be required according to work requirements 3.2 Form material into shape, using required fixing or joining methods, according to job specifications 3.3 Measure and check product against specifications, making adjustments to meet expected quality 3.4 Trim and finish joints and fabricated product according to job specifications 3.5 Accurately complete logs and records 3.6 Apply waste management strategies to collect and segregate scrap, trim and other materials according to workplace procedures 3.7 Clean equipment and work area according to equipment specifications and workplace procedures
4. Respond to process control variances	4.1 Recognise and log process control variances and their causes 4.2 Determine, prioritise and implement remedial and preventative actions based on identified issues and causes 4.3 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.
- Reading skills to interpret specifications and workplace procedures.
- Writing and oral communication skills to record and report on rubber or plastic fabrication 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 PMBPROD245 Fabricate materials.

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 PMBPROD245E Fabricate products with rubber or plastics

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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:

- Fabricate at least one product with rubber or plastics to meet job specifications

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- principles of rubber and plastics product fabrication
- methods of forming and joining
- methods for trimming and finishing
- types of forming tools and equipment and suitability for different materials including:
 - power and jig saws
 - thermal cutting devices
 - drills
 - riveting tools
 - bolts
 - stitching equipment
- the criteria for overall process/equipment readiness for the process or equipment being used
- types of materials commonly used in the sector and their behaviour when joined together
- production workflow sequences and materials demand
- key variables that may affect product quality and production output
- typical process and product problems, including early warning signs, possible causes and corrective actions:
 - incorrect patterns
 - marking errors
 - wear and breakage
 - loss of power or drives
 - controller sequence timer issues
 - sequencing problems
- 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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