



**Australian Government**

# **PMBPROD243E Cut rubber materials**

**Release: 1**

## PMBPROD243E Cut rubber materials

### Modification History

Release 1. New unit. Supersedes and is not equivalent to PMBPROD240C Cut materials.

### Application

This unit covers the skills and knowledge required to use specialised equipment or procedures to cut materials to size, shape or pattern.

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

This unit applies to operators who are required to identify the requirements for the job, prepare material and equipment for the work, operate cutting tools/equipment, and recognise problems and take appropriate action.

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 – Rubber

### 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                | <p>1.1 Access, interpret and apply site policy and procedure documentation and ensure work activity is compliant</p> <p>1.2 Obtain, read, interpret, clarify and confirm work requirements, including product, materials and equipment</p> <p>1.3 Identify and address potential risks, hazards and environmental issues, and implement control measures</p> <p>1.4 Select, use and maintain relevant personal protective equipment (PPE)</p> <p>1.5 Identify and perform housekeeping tasks in preparation for work to be undertaken</p> <p>1.6 Perform other pre-operational checks in preparation for cutting</p> |

| Elements                                        | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes.       | Performance criteria describe the performance needed to demonstrate achievement of the element.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                 | operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2. Plan and prepare to use hand and power tools | 2.1 Obtain appropriate tools, parts, materials and procedures to meet job requirements<br>2.2 Check tools for serviceability and safety, and report faults<br>2.3 Visually check power leads or hoses for serviceability and safety, and report faults<br>2.4 Sharpen, replace or change blades as needed according to equipment instructions                                                                                                                                                                                                                                                                     |
| 3. Cut rubber material                          | 3.1 Undertake required work activities according to workplace procedures<br>3.2 Mark out for cutting based on work requirements<br>3.3 Use or operate cutting tools or equipment to cut materials according to workplace procedures<br>3.4 Monitor cutting operations to ensure quality of work meets job requirements<br>3.5 Apply waste management strategies to clean and clear work area, and collect offcuts and other recyclable materials, for re-use or disposal according to workplace procedures<br>3.6 Pause and stop equipment in normal and abnormal circumstances according to workplace procedures |
| 4. Resolve faults                               | 4.1 Recognise and log process control variances and their issues<br>4.2 Determine, prioritise and implement remedial and preventative actions based on identified issues and causes<br>4.3 Accurately maintain records and logbooks                                                                                                                                                                                                                                                                                                                                                                               |

## Foundation Skills

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

- Numeracy skills to interpret technical information, perform and check measurements, and perform other basic arithmetical calculations.
- Reading skills to interpret specifications and workplace procedures.

- Writing and oral communication skills to record and report on cutting operations.

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

## **Unit Mapping Information**

New unit. Supersedes and is not equivalent to PMBPROD240 Cut 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 PMBPROD243E Cut rubber materials

## Modification History

Release 1. New unit. Supersedes and is not equivalent to PMBPROD240C Cut materials.

## 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:

- cut rubber materials to a size, shape or pattern at least once to meet work requirements.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- types of materials that commonly require cutting in the sector and their behaviour when cut
- types of cutting and associated equipment commonly used and their suitability for different materials, including three or more of:
  - cutting tools
  - blade dressing/sharpening tools
  - marking, measuring or guide tools
  - fixed blade knife
  - OLFA or Stanley knives, flat or offset knives and lino knives
  - hook knives
  - ply knives
  - multipurpose oscillating tools
  - multipurpose scissors
  - Mozart hook blades
  - sharpening stones
  - bench grinders
  - sharps containers
- function of the cutting tools/equipment being used
- principles of operation of the equipment
- the criteria for overall process/equipment readiness for the process or equipment being used
- the potential effects of variations in materials and equipment operation in relation to quality of product
- key variables that may affect product quality or production output and appropriate remedies, including:
  - material characteristics

- material availability
- dimensions, quality and quantity of cuts
- type of cutting equipment
- cutting edge condition
- typical problems, their probable causes and relevant corrective actions, including four or more of:
  - incorrect measurements and marking errors
  - equipment wear or breakage
  - variations in temperature
  - loss of power or drives
  - blunt blades
- organisational procedures relevant to the work environment or job role
- hierarchy of control
- hazards that may arise in the job or work environment, including three or more of:
  - blades and cutting equipment
  - weight, shape and volume of materials to be handled
  - hazardous products and materials
  - sharp edges, protrusions or obstructions
  - slippery surfaces, spills or leaks
  - rotational equipment or vibration
  - smoke, dust, vapours or other atmospheric hazards
  - electricity
  - equipment failures
- possible causes of hazards, and their potential consequences and 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

Companion Volume implementation guides are found in VETNet – -

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