



**Australian Government**

# **PMBFIN202E Fit attachments and assemble components for customised polymer products**

**Release: 1**

# **PMBFIN202E Fit attachments and assemble components for customised polymer products**

## **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 PMBFIN202 Fit attachments to products.

## **Application**

This unit describes the skills and knowledge required to use polymer fabrication techniques to fit and assemble components or customised products.

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

This unit principally refers to those specialised polymer fabrication techniques that can be applied to the manufacture of orthotics, prosthetics, bionic and mechanical healthcare and industrial products.

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**

Finishing – Production

## **Elements and Performance Criteria**

| <b>Elements</b>                                                          | <b>Performance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes.                                | Performance criteria describe the performance needed to demonstrate achievement of the element.                                                                                                                                                                                                                                                                                                                          |
| 1. Establish and prepare requirements for fitting and assembly processes | 1.1 Identify requirements from job order specifications defined by compliance requirements<br>1.2 Assemble required equipment and materials for electrical, traditional machine sewing, riveting, or 3D-printing finishing techniques<br>1.3 Consult safety data sheets and standard operating procedures to confirm safe work processes<br>1.4 Prepare and assemble required jigs and clamps to support finishing tasks |

| <b>Elements</b>                            | <b>Performance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes.  | Performance criteria describe the performance needed to demonstrate achievement of the element.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                            | 1.5 Prepare vacuum-assist equipment to support finishing tasks<br>1.6 Prepare robotic workmate assistance to support finishing tasks                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. Fit and assemble job with attachments   | 2.1 Apply polymer or metallic fasteners according to job specifications<br>2.2 Apply thermoset bonding resins according to job specifications<br>2.3 Complete other secondary process operations as required to meet job specifications<br>2.4 Apply waste management and recycling strategies according to workplace procedures<br>2.5 Monitor process and compare with specifications to identify suitability for further processing or for customer delivery<br>2.6 Assemble and sort finished products to meet delivery requirements |
| 3. Inspect product for quality conformance | 3.1 Inspect finished product for suitability for further processing, for customer delivery or for remediation, according to job specifications and workplace procedures<br>3.2 Perform sample testing of coupons and bonded pieces to establish operational and visual conformance, and compliance with relevant standards<br>3.3 Accurately maintain compliance records relating to relevant standards<br>3.4 Pack as required by job specifications                                                                                    |
| 4. Respond to product imperfections        | 4.1 Recognise product imperfections and their causes<br>4.2 Determine, prioritise and implement remedial actions based on identified issues and causes<br>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 specifications and equipment readings.
- Reading skills to interpret job and technical specifications.

- Writing and oral communication skills to record and report on compliance and 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 PMBFIN202 Fit attachments to 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 PMBFIN202E Fit attachments and assemble components for customised polymer products**

## **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 PMBFIN202 Fit attachments to products.

## **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:

- fit attachments and assemble components for customised polymer products at least once to meet requirements, using one or more of the following techniques:
  - trimming and sewing
  - grinding
  - cleaning
  - assembly for prototype testing
  - application of fasteners or rivets.

## **Knowledge Evidence**

There must be evidence the candidate has knowledge of:

- product or component quality requirements
- regulatory procedures for manufacture, and the governing bodies that administer them
- compatible materials for fasteners and rivets
- sewing machine applications, including:
  - set-up and maintenance
  - types of needles
  - types of feet
  - tension settings
- testing methods that demonstrate compliance.

## **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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