



**Australian Government**

# **Assessment Requirements for PMBPROD242E Bond polymers to surfaces**

**Release: 1**

# Assessment Requirements for PMBPROD242E Bond polymers to surfaces

## 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 PMBPROD242 Bond polymers to surfaces.

## 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:

- bond polymers to surfaces at least once to meet job specifications, and:
  - check substrate suitability, including:
    - surface soundness
    - surface preparation
    - substrate porosity
    - surface pits, protrusions or other irregularities
  - prepare joining material, including one or more of:
    - mixing chemicals or solutions
    - blending two (or more) pot-material components
    - thinning (e.g. with solvent) if required
    - measuring components for blends

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- principles of polymer bonding
- production workflow sequences and materials demand
- types of adhesives, cohesives, solvents and their differences and range of applications
- joining behaviour of polymers to relevant substrates and the role of adhesives, cohesives, solvents and other materials
- criteria for confirming pre-operational checks
- types and application of common joining processes
- types of tools and equipment typically used, including one or more of the following:
  - brushes
  - syringes
  - application scrapers
- expected quality standards resulting from the bonding process
- key variables that may affect product quality and production output, including:

- application patterns
- adhesive consistency
- adhesive viscosity
- solvent/thinner blend ratios
- drying/setting times
- pressure/contact between surfaces
- typical process problems, including early warning signs, possible causes and corrective actions
- organisational procedures relevant to the work environment and 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.

## Links

Companion Volume implementation guides are found in VETNet – -

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