



Australian Government

Assessment Requirements for PMBPROD251E Apply gel coat or other polymer surface finish

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 PMBPROD251 Apply gel coat or other polymer surface finish.

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:

- apply gel coat or other polymer surface finish at least once to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the function of gel coat in the composite products being manufactured
- the importance of gel coat application to the standard of the finished work
- the common types of coatings, their differences and range of applications
- equipment commonly used in the application of polymer surface finishes, including:
 - measurement devices including depth gauges, containers, weighing machines, scales and meters
 - hand application equipment including brushes
 - spray equipment
- the methods of application of coatings
- processing behaviour and the role of additives
- the criteria for overall process/equipment readiness for the process or equipment being used
- polymer surface finish workflow sequences and materials demand
- key variables that may affect product quality and production output, including:
 - thickness
 - temperature
 - air pressure
 - surface finish
 - condition of mould/surface
 - product integrity and general conformance to specification
- the potential effects of variations in raw materials, conditions and equipment in relation to quality of product
- typical process and product problems, as listed below, including early warning signs, possible causes and corrective actions:

- wrinkles and pinholes
- slow gel coat cure
- sagging of the gel coat
- porosity
- separation of colour
- discolouration
- spray blockage, build-up, wear or breakage
- mixing problems
- temperature variation
- catalysation
- incomplete cure
- 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.

Links

Companion Volume implementation guides are found in VETNet – -

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