



Australian Government

Assessment Requirements for PMBPROD356E Construct moulds for composite products

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 PMBPROD356 Construct moulds for composite 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:

- construct moulds for composite products at least once to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the principles of composite moulding processes
- characteristics of materials and their behaviour in relation to moulding process conditions and stages of production
- product requirements that affect mould construction and materials
- types, grades, uses and cure reaction of resins used to construct moulds, including:
 - polyester resin
 - epoxy resin
 - vinyl ester resin
 - dicyclopentadiene (DCPD)
- types and role of catalysts, promoters and additives used with each type of resin
- types, role and properties of reinforcement materials, including:
 - E-glass
 - S2-glass
 - carbon fibre
 - aramid
- typical quality standards required at each stage of construction
- key variables in mould construction processes and materials that may affect product quality and production output
- typical and atypical process and product problems, including early warning signs, possible causes and corrective actions
- 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
- post-curing requirements.

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>