



Australian Government

**Assessment Requirements for
PMBPROD360E Produce polyurethane
products using centrifugal casting**

Release: 1

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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 PMBPROD360 Produce centrifugally cast polyurethane 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:

- produce polyurethane products using centrifugal casting at least once to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- function and operating principles of centrifugal casting equipment, machine components and ancillary equipment
- centrifugal casting manufacturing process and materials demand
- characteristics of materials and their behaviour in relation to process conditions and stages of production
- environmental controls relevant to centrifugal casting of polyurethane products
- the criteria for overall process/equipment readiness for the process or equipment being used, including the importance of machine set-up and warm-up for effective processing of materials
- typical quality standards required at each stage of production
- key variables that may affect product quality and production output:
 - operating temperatures
 - speed of rotation or cure
 - pour rate, angle and quality
 - colour
 - cycle time
 - use of separating agents
 - product weight
 - product integrity and general conformance to specification
- typical and atypical process and product problems, including early warning signs, possible causes and corrective actions

- the distinguishing characteristics of causes of problems as being either based on the properties of materials or caused by process variables
- organisational procedures relevant to the work environment or job role, including procedures for the emergency shutdown of equipment
- 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>