



Australian Government

Assessment Requirements for PMBPROD390E Produce composites using filament winding

Release: 1

Assessment Requirements for PMBPROD390E Produce composites using filament winding

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 PMBPROD390 Produce composites using filament winding.

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 composites using filament winding at least once to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the functions of filament winding equipment
- the principles of operation of filament winding equipment
- filament winding manufacturing process and materials demand
- characteristics of materials and their behaviour
- the criteria for overall process/equipment readiness for the process or equipment being used
- typical quality standards required at each stage of production, including mechanical, hydraulic, pneumatic, electrical and electronic principles that affect machine operation
- key variables that may affect product quality and production output, including:
 - operating temperatures
 - speeds, including the rotating speed of the mandrel
 - spool tension
 - colour
 - cycle time
 - output rate
 - 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
- 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>