



Australian Government

Assessment Requirements for PMBPROD287E Weld thermoplastics materials

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 PMBPROD287 Weld plastics materials.

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:

- weld thermoplastic materials at least once to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- types of plastics materials commonly used in the sector or work environment and their behaviour when prepared and welded
- types and functions of welding equipment, and their related procedures, including:
 - butt fusion welding
 - electro fusion welding
 - extrusion welding
 - heated wedge welding
 - high speed nozzle
 - hot gas welding
 - infrared welding
 - socket fusion welding
- suitability of use of welding equipment for different materials
- types of welds and how to achieve them
- production workflow sequences and materials demand
- quality standards at each stage of production
- welding symbols
- key variables that may affect product quality and production output, including:
 - weld temperature
 - feed rate of filler rod
 - variations in materials being welded
 - thickness of materials being welded
- typical process and product problems, including early warning signs, possible causes and corrective actions:

- incorrect patterns or inaccurate assembly or clamping
- incorrect filler rod selection
- poor surface preparation
- incorrect selection of welding nozzle or attachments
- introduction of moisture to welding devices
- sequencing problems
- bonding problems
- incomplete weld deposit
- plastication not achieved
- 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>