



Australian Government

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.

Application

This unit describes the skills and knowledge required to weld thermoplastic materials including sheet, pipe, formed tube, solid section or formed profile using manual techniques and hand-held equipment.

This unit applies to an experienced technician working alone or as part of a team.

The unit principally refers to the standard production tasks associated with welding thermoplastic polymers.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

Nil

Competency Field

Production – Plastics Fabrication

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Check work requirements	1.1 Identify requirements from job specifications 1.2 Plan production process and task sequence of welding operations to meet work requirements 1.3 Perform pre-operational checks including checking for and acting on hazards
2. Prepare equipment and materials	2.1 Set up tools and equipment ready for production use 2.2 Check availability of materials, patterns and consumables to meet job requirements 2.3 Ensure safety equipment is available and fit for use

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
3. Perform thermoplastic welding	3.1 Assemble components according to production process, using clamps and jigs when required 3.2 Prepare surfaces as needed for welding to be performed 3.3 Weld materials according to job specifications 3.4 Ensure output meets job specifications and quality standards 3.5 Apply waste management strategies to collect and segregate scrap, trim and other materials according to workplace procedures 3.6 Accurately complete logs and records 3.7 Clean equipment and work area according to equipment specifications and workplace procedures 3.8 Pause or stop equipment in normal and abnormal circumstances according to workplace procedures
4. Respond to process control variances	4.1 Recognise and log process control variances and their causes 4.2 Determine, prioritise and implement remedial and preventative actions based on identified issues and causes 4.3 Accurately maintain records and logbooks

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

- Numeracy skills to interpret technical information and equipment readings.
- Reading skills to interpret specifications and workplace procedures.
- Writing and oral communication skills to record and report on welding operations.

Other foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to PMBPROD287 Weld plastics materials.

Links

Companion Volume implementation guides are found in VETNet –

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