



Australian Government

Assessment Requirements for PMBWELD301E Join polyethylene plastic pipelines using butt welding

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 PMBWELD301 Butt weld polyethylene plastic pipelines.

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:

- join polyethylene plastic pipelines using butt welding, at least once, to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the functions and operating principles of butt welding equipment, components and ancillary equipment
- types of butt welding processes and their effect on the welded product
- Australian Standards relevant to the materials being used and products being made
- production workflow sequences and materials demand
- typical quality standards at each stage of the welding process
- key variables that may affect product quality, and how to manage them, including:
 - temperature
 - pressure
 - alignment
 - uniformity
 - weld bead appearance
 - tolerance for weld and joint
 - consistency of weld
 - mechanical strength of weld
- worksite environment factors that may affect weld quality and appropriate remedies
- typical process and product problems, including early warning signs, possible causes and corrective actions
- organisational procedures relevant to the work environment and 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>