



**Australian Government**

# **Assessment Requirements for PMBWELD302E Join polyethylene plastic pipelines using electrofusion 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 PMBWELD302 Electrofusion 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 of competency, and demonstrated the ability to:

- join polyethylene plastic pipelines using electrofusion welding, at least once, to meet job specifications, and including:
  - preparation of joint assemblies:
    - clamping
    - aligning
    - insertion
    - pipe peeling to be smooth and to the correct depth.

## **Knowledge Evidence**

There must be evidence the candidate has knowledge of:

- the function and operating principles of electrofusion welding equipment, components and ancillary equipment
- characteristics of materials and their behaviour in relation to welding process variables and stages of production
- typical quality standards required at each stage of production
- production workflow sequences and materials demand
- key variables that may affect product quality and production output, and how to manage them, including:
  - voltage
  - fusion time
  - cooling time
  - alignment
  - product output rate
- worksite environment factors that may affect joint 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.

## 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>