



Australian Government

UEGNSG200 Conduct butt fusion of large diameter polyethylene gas pipeline systems

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEG Gas Industry Training Package.

Application

This unit involves the skills and knowledge required to butt fuse large diameter polyethylene gas pipeline systems.

It includes preparing to weld polyethylene pipe, handling, jointing, constructing and welding polyethylene gas distribution mains. It also includes gas distribution, gathering lines, secondary mains (high pressure) and gas transmission line work and completing relevant documentation.

This unit applies to large polyethylene pipe diameter greater than 180 mm.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

Gas Distribution

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to weld polyethylene pipe

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Job requirements and workplace procedures for the site are discussed with relevant persons

1.2 Work health and safety (WHS)/occupational health and

- safety (OHS) workplace procedures and environmental and sustainable measures for the site are identified, obtained and applied
- 1.3** Scope of work and responsibilities are confirmed with relevant persons in accordance with job requirements and workplace procedures
- 1.4** Pre-start test weld sample is prepared in accordance with workplace procedures
- 2 Confirm pipe handling and jointing of polyethylene pipe**
- 2.1** Pipe and materials hazards are identified, risks assessed and control measures prioritised, implemented and monitored in accordance with workplace procedures
- 2.2** Equipment, tools and personal protective equipment (PPE) required to carry out the work are identified, obtained and checked for correct operation and safety in accordance with workplace procedures
- 2.3** Relevant person/s are consulted to ensure the work is coordinated effectively with others involved
- 2.4** Materials, plans, diagrams, drawings and resources required to weld and lay polyethylene gas distribution mains are confirmed, scheduled and obtained in accordance with workplace procedures
- 2.5** Unsuitable or damaged materials including improperly stored materials are rejected/rectified and reported in accordance with workplace procedures
- 2.6** Safety and emergency response procedures and responsibilities for an incident are checked and confirmed with relevant person/s
- 2.7** Site preparation, safety plan, traffic management plan and work schedule are confirmed with relevant person/s in accordance with workplace procedures
- 3 Construct and weld polyethylene gas distribution mains**
- 3.1** WHS/OHS and environmental risk control measures, schedule of work and workplace procedures for carrying out work are monitored and followed
- 3.2** Materials, tools, equipment and measuring devices required for the work are selected and used correctly and safely in accordance with manufacturer instructions and workplace procedures

- 3.3 Hazardous activities are conducted safely in accordance with WHS/OHS workplace procedures and job requirements
 - 3.4 Welding and laying of polyethylene gas distribution mains are conducted in accordance with relevant industry standards and workplace procedures
 - 3.5 Materials are prepared, aligned, constrained and jointed in accordance with relevant industry standards and workplace procedures without waste
 - 3.6 Unplanned incidents/events are referred to relevant persons for directions in accordance with workplace procedures
 - 3.7 Welds and safety checks of work and testing of pipework is carried out in accordance with industry standards, work instructions and workplace procedures
- 4 Complete work and relevant documentation**
- 4.1 WHS/OHS and environmental risk control measures for work completion are followed
 - 4.2 Work site is rehabilitated, cleaned up and made safe in accordance with workplace procedures
 - 4.3 Tools, equipment and any surplus resources and materials are cleaned, checked and securely stored in accordance with workplace procedures
 - 4.4 Relevant person/s are notified of work completion in accordance with workplace procedures
 - 4.5 Relevant documentation is completed and provided to appropriate person/s in accordance with workplace procedures

Foundation Skills

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

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEG Gas Industry Training Package Companion

Volume Implementation Guide.

Unit Mapping Information

This is a new unit.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6a6c032e-ffcb-4f3d-8063-415efbd261e8>