



Australian Government

**Assessment Requirements for UEGNSG220
Construct and lay polyethylene gas
distribution mains**

Release: 1

Assessment Requirements for UEGNSG220 Construct and lay polyethylene gas distribution mains

Modification History

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

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two separate occasions and include:

- applying controls for stray, static and induced electrical faults
- applying electrostatic mitigation workplace procedures
- applying material handling workplace procedures
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements
- applying sustainable energy and environmental principles and practices
- checking tools, equipment, plant and personal protection equipment (PPE) for correct operation and safety
- cleaning, checking and storing tools and equipment
- communicating effectively with others
- completing required documentation and reporting
- conducting quality and safety checks
- constructing and laying polyethylene gas distribution mains
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- identifying and correctly reading plans, drawings, manuals and diagrams
- positioning road signs, barriers and warning devices
- preparing the excavation site
- rehabilitating and maintaining a clean work area
- selecting correct materials, equipment, tools, personal protection equipment and measurement devices
- testing pipework
- working in accordance with relevant work permit/notifications.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of

the requirements of the elements and performance criteria and include knowledge of:

- conditions for direct installation or insertion of polyethylene pipeline
- controls for stray, static and induced electrical faults
- construction of polyethylene pipelines
- effective communication techniques
- environmental and sustainable energy principles and practices
- excavation/trenching and bedding requirements for polyethylene pipelines
- hazardous activities, including the use of power tools, lifting, climbing, and working in confined spaces, excavations and trenches
- installation and testing of polyethylene pipelines
- jointing procedures, methods and calculations
- plastic gas main pipelines types, characteristics and components
- polyethylene gas pipelines types, characteristics and components
- problem-solving techniques
- quality and safety checks
- relevant standards, legislations, codes and regulations
- relevant WHS/OHS legislated requirements, including:
 - hazards, risk assessment and control measures
 - dangers of working with live gas
- relevant manufacturer specifications
- relevant materials, plans, diagrams, drawings and resources
- relevant materials, tools, equipment, plant, measuring devices and PPE
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes includes electrostatic hazards and risk mitigation
- relevant WHS/OHS legislated requirements
- relevant work permits and/or notifications
- relevant workplace documentation
- relevant workplace policies and procedures
- road signs, barriers, warning devices and traffic management plans
- site preparation, safety plans, job requirements and work schedules.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and PPE currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume Implementation Guides are found in VETNet -

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