



**Australian Government**

**Assessment Requirements for UEGNSG223  
Construct and lay steel gas distribution  
pipelines**

**Release: 1**

# Assessment Requirements for UEGNSG223 Construct and lay steel gas distribution pipelines

## 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, performance criteria and range of conditions on at least two separate occasions and include:

- applying controls for stray, static and induced electrical faults
- applying coating types and protection
- 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 protective equipment (PPE) for correct operation and safety including handling and storage requirements
- cleaning, checking and storing tools and equipment
- communicating effectively with others
- completing required documentation and reporting
- conducting quality and safety checks
- constructing and laying steel gas distribution mains
- dealing with unplanned events
- identifying and correctly reading plans, drawings, manuals and diagrams
- identifying plant and equipment and safe operating parameters/requirements
- obtaining relevant resources, tools, equipment and materials to conduct the work
- positioning road signs, barriers and warning devices
- preparing the excavation site
- preparing to construct and lay steel gas distribution mains
- rehabilitating and maintaining a clean work area
- 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, performance criteria and range of conditions and include

knowledge of:

- conditions for direct installation or insertion of steel pipelines
- construction of steel pipelines
- effective communication techniques
- coating types and protection
- controls for stray, static and induced electrical faults
- environmental and sustainable energy principles and practices
- excavation/trenching and bedding requirements for steel pipelines
- handling and storage requirements
- hazardous activities, including the use of power tools, lifting, climbing, and working in confined spaces, excavations and trenches
- installation and testing of steel pipelines
- problem-solving techniques
- quality and safety checks
- 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
- 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 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
- steel gas pipelines types, characteristics and components.

## 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>