



Australian Government

**Assessment Requirements for UEGNSG009
Assist with the construction, laying and
connection of gas distribution services to
mains**

Assessment Requirements for UEGNSG009 Assist with the construction, laying and connection of gas distribution services to 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 relevant industry standards, guidelines, codes of practice and regulations
- applying relevant workplace safety requirements
- applying sustainable energy and environmental principles and practices
- assisting in the construction and laying of a service to a main
- assisting in the purging and commissioning of a gas service
- completing required documentation and reporting
- assisting in conducting quality and safety checks
- consulting supervisor to assist in coordinating work
- identifying and correctly reading plans, drawings, manuals and diagrams
- identifying plant and equipment and safe operating parameters/requirements
- maintaining a clean work area
- minimising waste
- obtaining job requirements and work instructions
- obtaining relevant resources, tools, equipment and materials to conduct the work
- preparing the excavation site
- preparing to assist construction and laying of a service to a main
- referring third-party issues to supervisor
- reporting workplace safety risks and incidents to supervisor
- reporting workplace safety risks, incidents, accidents and unplanned events to supervisor
- 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:

- combustible gas, characteristics and properties, including but not limited to natural gas, propane and hydrogen
- dangers of working with live gas
- dangers of working near plant
- controls for stray, static and induced electrical faults
- cutting, tapping and joining pipelines and fittings, including:
 - requirements under various conditions and inclement weather
 - methods, procedures and safety requirements
- effective communication techniques
- environmental and sustainable energy principles and practices
- gas service and gas main pipelines, including:
 - types and characteristics
 - pipe sizes
 - fittings
 - accessories
 - handling and storage
 - safety data sheets (SDS)
- hazards and hazardous activities in the workplace
- installation of service pipelines
- relevant legislation, industry standards, codes of practice and regulations, including relevant industry and technical standards
- relevant manufacturer instructions
- relevant plans, diagrams and drawings
- relevant materials, tools, equipment, plant, resources and personal protective equipment (PPE)
- relevant workplace safety requirements, including:
 - legislated work health and safety (WHS)/occupational health and safety (OHS) requirements
 - legislated industry/technical specific requirements
 - workplace safety procedures
 - manufacturer requirements
- relevant work permits and/or notifications
- relevant workplace documentation
- relevant workplace policies and procedures
- site preparation, safety plans, job requirements and work schedules
- techniques to minimise waste
- third-party issues
- transition fittings and adaptors to other piping materials
- installation methods for service pipelines, including:
 - bedding materials
 - trenched, open cut and trenchless

- trench width and depth
- required installation depth in various locations
- pipeline support
- backfilling/compacting requirements
- surface reinstatement.

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>