



Australian Government

UEGNSG213 Construct, lay and connect a gas distribution service to a steel main

Release: 1

UEGNSG213 Construct, lay and connect a gas distribution service to a steel main

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 excavate bed preparation and construct, lay and connect a gas service to a steel main, and complete the work and relevant documentation.

It includes installing the meter in accordance with industry standards and regulatory requirements. It also includes using relevant tools and equipment, working safely in accordance with workplace procedures and complying with relevant legislative, industry standards and codes of practice requirements.

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 construct and lay a gas service to a steel main

PERFORMANCE CRITERIA

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

1.1 Work health and safety (WHS)/occupational health and safety (OHS) workplace procedures and environmental measures for the site are identified, obtained and applied

- 1.2 Job requirements and workplace procedures for the site are obtained and discussed with relevant person/s to confirm the work schedule
 - 1.3 WHS/OHS, environmental and sustainable energy policies and procedures are obtained and applied in accordance with workplace procedures
 - 1.4 Hazards are identified, risks are assessed and control measures prioritised, implemented and monitored in accordance with workplace procedures
 - 1.5 Work permit and/or relevant notification is obtained and confirmed with relevant person/s in accordance with job requirements and workplace procedures
 - 1.6 Equipment, plant, tools and personal protective equipment (PPE) required to construct and lay gas services are identified, obtained and checked for correct operation and safety in accordance with workplace procedures
 - 1.7 Relevant person/s are consulted to ensure the work is coordinated effectively with others involved
 - 1.8 Materials, plans, diagrams, drawings and resources required to construct and lay gas services are confirmed, scheduled and obtained in accordance with workplace procedures
 - 1.9 Safety and emergency procedures for an incident at the work site are checked and confirmed with relevant person/s
 - 1.10 Third-party issues are referred to relevant person/s in accordance with established procedures
 - 1.11 Site preparation, safety plan and work schedule are confirmed with relevant person/s in accordance with workplace procedures
- 2 **Construct and lay a gas service to a steel main**
 - 2.1 WHS/OHS and environmental risk control measures, schedule of work and workplace procedures for carrying out work are followed
 - 2.2 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

- 2.3 Hazardous activities are conducted safely in accordance with given instructions and to requirements
- 2.4 Excavation bed is prepared for laying of pipe in accordance with industry standards and workplace procedures
- 2.5 Construction and laying of gas services to steel main are conducted in accordance with industry standards and workplace procedures
- 2.6 Work is carried out to the required standard, without waste of materials or damage to apparatus, equipment, and the surrounding environment or services using sustainable energy principles
- 2.7 WHS/OHS risks, incidents and accidents are reported to authorised person/s for directions in accordance with workplace procedures
- 2.8 Unplanned events are referred to authorised person/s for directions in accordance with workplace procedures
- 2.9 Pipework is tested and quality and safety checks of installation are carried out in accordance with work instructions and industry standards
- 3 **Complete the work and relevant documentation**
 - 3.1 WHS/OHS and environmental risk control measures for work completion are followed
 - 3.2 Relevant person/s are notified of work completion in accordance with workplace procedures
 - 3.3 Tools, equipment and any surplus resources and materials are cleaned, checked and securely stored in accordance with workplace procedures
 - 3.4 Work site is tidied and made safe in accordance with workplace procedures
 - 3.5 Work documentation is completed and provided to relevant 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 unit replaces and is equivalent to UEGNSG213B Construct, lay and connect a gas distribution service to a steel main.

Links

Companion Volume Implementation Guides are found in VETNet -

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

Assessment Requirements for UEGNSG213 Construct, lay and connect a gas distribution service to a steel main

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 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
- cleaning, checking and storing tools and equipment
- communicating effectively with others
- completing required documentation and reporting
- conducting quality and safety checks
- constructing and laying a service to a steel main
- 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
- identifying plant and equipment and safe operating parameters/requirements
- maintaining a clean work area
- obtaining relevant resources, tools, equipment and materials to conduct the work
- preparing the excavation site
- preparing to construct and lay a service to a steel main
- 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:

- gas service pipelines types, characteristics and components
- hazardous activities, including the use of power tools, lifting, climbing, and working in

- confined spaces, excavations and trenches
- steel gas main pipelines types, characteristics and components
- relevant standards, legislations, codes and regulations
- effective communication techniques
- environmental and sustainable energy principles and practices
- excavation and bedding requirements for service pipelines
- installation and testing of service pipelines
- pipework tests
- 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 work permits and/or notifications
- relevant workplace documentation
- relevant workplace policies and procedures
- relevant WHS/OHS legislated requirements, including:
 - hazards, risk assessment and control measures
 - dangers of working with live gas
- site preparation, safety plans job requirements and work schedules
- third-party issues.

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.

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