



Australian Government

UEGNSG216 Commission or decommission gas distribution pipelines

Release: 1

UEGNSG216 Commission or decommission gas distribution pipelines

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 commission, decommission and re-commission gas distribution pipelines in accordance with relevant legislation, standards, regulations, codes of practice and workplace procedures.

It includes using relevant tools and equipment, testing pipelines for safety and conformance, communicating with appropriate authorities and completing relevant documentation.

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 commission/decommission gas distribution pipelines

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

work are 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** Work is prioritised and sequenced for completion within acceptable timeframes following consultation with relevant person/s in accordance with workplace procedures
- 1.5** Hazards are identified, WHS/OHS risks are assessed and control measures prioritised, implemented, and monitored in accordance with workplace procedures
- 1.6** Scope of work and level of responsibility under the relevant work permit and/or notification is confirmed with relevant person/s in accordance with job requirements and workplace procedures
- 1.7** Person/s, equipment, tools and personal protective equipment (PPE) required for the work are identified, scheduled, obtained and checked for correct operation and safety in accordance with workplace procedures
- 1.8** Materials, plans, diagrams, drawings and resources required for the work are scheduled and obtained in accordance with workplace procedures
- 1.9** Safety and emergency procedures and responsibilities for first aid and incidents at the worksite are checked and confirmed with relevant person/s in accordance with workplace procedures
- 1.10** Third-party issues are referred to relevant person/s in accordance with workplace procedures
- 1.11** Pipeline is cleaned, pigged, bypassed and check for commissioning/decommissioning readiness in accordance with workplace procedures
- 1.12** Site preparation, safety plan and work schedule are confirmed with relevant person/s in accordance with workplace procedures
- 1.13** Person/s participating in the work are briefed and responsibilities confirmed in accordance with job requirements and workplace procedures

- | | | |
|---|-------------|---|
| | 1.14 | Road signs, barriers and warning devices are positioned in accordance with job requirements and traffic management plan |
| 2 Commission/decommission gas distribution pipelines | 2.1 | WHS/OHS and environmental risk control measures and workplace procedures for carrying out work are followed |
| | 2.2 | Materials, tools, equipment and testing 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 WHS/OHS workplace procedures, job instructions and regulatory requirements |
| | 2.4 | Pipeline purging/flaring is undertaken in accordance with job requirements, industry standards and workplace procedures |
| | 2.5 | Commissioning/decommissioning of gas distribution pipelines is performed to industry standards without waste of materials or damage to apparatus, circuits, and the surrounding environment or services using sustainable energy principles |
| | 2.6 | Gas is tested for compliance with pressure, concentration and odourant level requirements in accordance with industry standards and workplace procedures |
| | 2.7 | WHS/OHS risks are assessed and incidents reported to authorised person/s for directions in accordance with workplace procedures |
| | 2.8 | Unplanned events and non-routine problems are referred to authorised person/s for directions in accordance with workplace procedures |
| | 2.9 | Relevant reports and quality and safety checks of the work are conducted in accordance with job requirements and workplace procedures |
| 3 Complete work and relevant documentation | 3.1 | WHS/OHS and environmental risk control measures and procedures for completing the work are followed |
| | 3.2 | Testing is conducted using relevant tools/equipment and work checked against work schedule for conformance |

with job requirements and anomalies reported in accordance with workplace procedures

- 3.3** Accidents and injuries are reported in accordance with requirements and workplace procedures
- 3.4** Work site is rehabilitated, cleaned up and made safe in accordance with workplace procedures
- 3.5** Tools, equipment and any surplus resources and materials are cleaned, checked and securely stored in accordance with workplace procedures
- 3.6** Relevant work permit/s are signed off and equipment returned to service in accordance with workplace procedures, job and regulatory requirements
- 3.7** Appropriate person/s are notified of work completion in accordance with workplace procedures
- 3.8** Final inspections are undertaken and work completion documentation is finalised, processed 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.

commissioning/decommissioning gas distribution pipelines must include:

- carrying out job safety analysis (JSA)
- commissioning and recommissioning workplace procedures
- isolating venting and purging gas pipeline systems
- obtaining the required work permit/authorisation
- purging and venting calculations
- testing for correct pressure, concentration

- isolation methods must include at least two (2) of the following:
- and odourant level
 - using gas detectors
 - bagtube
 - high pressure stop off
 - hot tap and stopple
 - squash off jacks/pliers

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG216A Commission or decommission gas distribution pipelines.

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 UEGNSG216 Commission or decommission 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 relevant industry standards, guidelines, codes of practice and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - ensuring emergency response procedures are in place
 - hazard identification and reporting
 - implementing risk control measures
 - working safely with hazardous materials and equipment
- applying sustainable energy and environmental principles and practices
- checking pipework is ready, including testing and pigging
- commissioning/decommissioning gas distribution pipelines
- communicating with relevant person/s, authorities and stakeholders
- completing work and relevant documentation
- conducting final inspections of work
- conducting quality and safety checks
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following workplace procedures
- inspecting and testing to identify faults
- interpreting technical drawings, plans and materials lists
- obtaining approvals from authorities and signing off work permits
- obtaining relevant work permits
- performing pipeline purging/flaring
- positioning road signs, barriers and warning devices
- preparing to commission/decommission gas distribution pipelines
- rehabilitating and maintaining a clean work site
- testing for correct pressure, concentration and odourant level
- using relevant tools, equipment, measuring devices, personal protective equipment (PPE) and materials.

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:

- decommissioning/commissioning/re-commissioning requirements, equipment, tools and procedures, including distribution gas pipeline commissioning and decommissioning
- effective communication techniques
- equipment faults
- fault-finding and troubleshooting techniques
- final inspections industry standard
- fitting bypass apparatus ensuring continuity of supply
- hazardous activities, including lifting, climbing, working in confined spaces or aloft, and use of power tools
- monitoring of system pressure at appropriate locations depending on network design and operating conditions
- non-conformances and incident reports
- purging and flaring the pipe system using a variety of media and testing procedures
- purging and venting calculations
- quality and safety checks
- regulating, monitoring and testing system pressures, concentration and odour levels
- relevant industry standards, guidelines, codes of practice and regulations
- relevant manufacturer specifications
- relevant workplace documentation recording and reporting
- relevant workplace policies and procedures
- site preparation
- testing of pipelines
- testing, adjusting and repairing systems
- relevant WHS/OHS legislated requirements, including:
 - site emergency procedures
 - hazards, risk assessment and control measures
 - environmental and sustainable energy principles and practices
 - hazard warnings and safety signs
 - PPE
- relevant technical drawings, plans and material lists
- relevant tools, measuring and testing equipment
- relevant work permits
- third-party issues
- traffic management plans.

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.

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

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>