



Australian Government

UEGNSG344 Commission or decommission gas transmission pipelines

Release: 1

UEGNSG344 Commission or decommission gas transmission 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 and decommission gas transmission pipelines in accordance with relevant legislation, standards, regulations, codes of practice and workplace procedures.

It includes planning, undertaking and completing the commissioning/decommissioning of gas transmission pipelines 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 Transmission

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan to commission/decommission gas transmission pipelines

PERFORMANCE CRITERIA

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

1.1 Work schedule/s, drawings, plans, job requirements and material lists are obtained, analysed and confirmed if necessary by site inspection in accordance with workplace procedures

- 1.2** Work health and safety (WHS)/occupational health and safety (OHS) workplace procedures and environmental measures for the sites are identified, obtained and applied
- 1.3** Job requirements and workplace procedures are obtained for all work sites and communicated to relevant person/s in accordance with workplace procedures
- 1.4** WHS/OHS, environmental and sustainable energy policies and procedures are obtained, communicated and applied in accordance with workplace procedures
- 1.5** Work is prioritised and sequenced by management for completion within acceptable timeframes following consultation with relevant person/s in accordance with workplace procedures
- 1.6** Hazards are identified, WHS/OHS risks are assessed and control measures prioritised, implemented and monitored in accordance with workplace procedures
- 1.7** Relevant work permit/s are obtained to access, isolate/de-energise systems and perform work in accordance with regulatory requirements and workplace procedures
- 1.8** Scope of work and level of responsibility under the relevant work permit/authorisation is confirmed with relevant person/s in accordance with job requirements and workplace procedures
- 1.9** Person/s, equipment, tools, materials, plans, specifications 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
- 1.10** First aid officer at the work site is confirmed with relevant person/s in accordance with job requirements and workplace procedures
- 1.11** Communication issues with relevant stakeholders are resolved and work coordinated by management in accordance with work schedule and workplace procedures
- 1.12** Pipeline is cleaned, pigged, bypassed and checked for commissioning/decommissioning readiness in

accordance with workplace procedures

1.13 Site is prepared to minimise risk and damage to property, commerce and individuals in accordance with the work schedule and workplace procedures

1.14 Person/s participating in the work are briefed and responsibilities confirmed in accordance with job requirements and workplace procedures

1.15 Road signs, barriers and warning devices are positioned in accordance with job requirements and traffic management plan

2 Commission/decommissioning gas transmission pipelines

2.1 WHS risk control measures, schedules 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 WHS/OHS workplace procedures, job instructions and regulatory requirements

2.4 Commissioning/decommissioning gas transmission pipelines is performed in agreed timeframe and to industry standards with a minimum of waste or damage to apparatus, circuits, and the surrounding environment or services using sustainable energy principles

2.5 Commissioning/decommissioning gas transmission pipelines is performed in accordance with work schedule, job requirements and workplace procedures

2.6 Hazard warnings and safety signs are recognised, hazards and WHS/OHS risks assessed and incidents reported to authorised person/s for directions in accordance with workplace procedures

2.7 Adjustments are made for unplanned events when commissioning/decommissioning gas transmission pipelines 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 risk control measures and procedures for completing the work are followed
	3.2	Testing is conducted using relevant tools/equipment and work checked 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 stored securely 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	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 or decommissioning gas transmission pipelines must include at least two (2) of the following procedures:

- steel pipeline coating repair
- steel pipeline coating testing
- steel field joint coating

commissioning or decommissioning gas transmission pipelines must include at least two (2) of the following procedures:

- city gate operation (pressure regulator knowledge)
- line valve operation
- pressure control procedure

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG344A Commission or decommission gas transmission 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 UEGNSG344 Commission or decommission gas transmission 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
- interpreting technical drawings, plans and materials lists
- communicating with relevant person/s, authorities and stakeholders
- completing work and relevant documentation
- commissioning/decommissioning gas transmission pipelines
- using relevant tools, equipment, measuring devices, personal protective equipment (PPE) and materials
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- rehabilitating and maintaining a clean work site
- obtaining approvals from authorities and signing off work permits
- conducting final inspections of work
- planning to commission/decommission gas transmission pipelines
- inspecting and testing to identify faults
- following workplace procedures
- conducting quality and safety checks
- obtaining relevant work permits
- applying problem-solving techniques
- positioning road signs, barriers and warning devices
- isolating and de-energising systems.

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:

- relevant stakeholders, including:
 - authorised persons, authorities, clients and land owners
 - plant operators and contractors
- hazardous activities, including lifting, climbing, working in confined spaces or aloft, and use of power tools
- transmission pipeline commissioning and decommissioning
- relevant industry standards, guidelines, codes of practice and regulations
- relevant WHS/OHS legislated requirements, including:
 - hazards, risk assessment and control measures
 - environmental and sustainable energy principles and practices
 - hazard warnings and safety signs
 - PPE
- site preparation
- pipeline and component specifications
- relevant tools and testing equipment
- procedures for testing, adjusting and repairing systems
- relevant workplace policies and procedures
- fitting bypass apparatus ensuring continuity of supply
- procedures for checking pipework is ready, including testing and pigging
- procedures for testing of pipelines
- relevant manufacturer specifications
- relevant workplace documentation, recording and reporting
- relevant work permits and/or notifications
- effective communication techniques
- fault-finding and troubleshooting techniques
- quality and safety checks
- relevant technical drawings, plans, material lists
- isolating/de-energising systems
- cleaning, pigging and bypassing pipeline procedures
- traffic management plan
- final inspection procedures.

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>