



Australian Government

UEGNSG034 Carry out surveillance of gas transmission pipelines

Release: 1

UEGNSG034 Carry out surveillance of 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 carry out ground surveillance of gas transmission pipelines, complete work and relevant documentation, and report in accordance with relevant legislation, standards, codes of practice and workplace procedures.

It includes threat mitigation through identifying non-conformances, areas to be monitored and inspection of easement, pipe work, structures, fittings and equipment in accordance with organisational and statutory requirements.

Aerial surveillance is not covered by this unit.

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 Prepare to carry out surveillance of gas transmission pipelines

PERFORMANCE CRITERIA

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

1.1 Workplace safety, environmental and sustainable energy practices for the site are identified, obtained and understood

- 1.2 Job requirements are obtained and interpreted from plans, specifications and instructions
 - 1.3 Relevant job requirements and workplace procedures for work activities are discussed with relevant person/s, including third parties, to determine and confirm work schedule and respective responsibilities
 - 1.4 Hazards are identified, workplace safety and environmental risks are assessed, and control measures are prioritised, implemented and monitored in accordance with workplace procedures
 - 1.5 Scope of responsibility under the relevant job requirements, including all work permits and/or relevant notifications, is determined and confirmed to access the services and perform work in accordance with job requirements and workplace procedures
 - 1.6 Equipment, vehicles, tools and personal protective equipment (PPE) needed to carry out work activities are identified, obtained and checked for correct operation and safety in accordance with workplace procedures and manufacturer instructions
 - 1.7 Materials, plans, diagrams, drawings and resources required for work are confirmed and obtained in accordance with workplace procedures
- 2 **Carry out surveillance of gas transmission pipelines**
 - 2.1 Workplace safety and environmental risk control measures, schedule of work and workplace procedures for carrying out work are followed
 - 2.2 Appropriate materials, tools and equipment are selected and used safely in accordance with manufacturer instructions and workplace procedures
 - 2.3 Dealings with stakeholders are consistent with workplace procedures and the special needs of customers are identified and considered in targeting client service
 - 2.4 Work is completed within agreed timeframe and to industry standards in accordance with job requirements and workplace procedures
 - 2.5 Pipeline anomalies are recorded in accordance with workplace procedures

- 2.6 Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures
 - 2.7 Easement breaches, faults and operational conditions of the pipeline network are identified and resolved, where possible, and reported to relevant person/s in accordance with workplace procedures
 - 2.8 Pressure and flow fluctuations outside of acceptable limits are investigated and resolved, where possible, and reported to relevant person/s in accordance with workplace procedures
 - 2.9 Key issues are identified and communicated to the relevant person/s in accordance with workplace procedures
 - 2.10 Unplanned events are referred to the relevant person/s for directions in accordance with workplace procedures
- 3 Complete work and relevant documentation**
 - 3.1 Workplace safety risk control measures for work completion are followed
 - 3.2 Quality and safety checks of the work are conducted in accordance with job requirements, workplace procedures and community and industry standards
 - 3.3 Worksite is cleaned, reinstated and made safe in accordance with workplace procedures
 - 3.4 Tools, vehicles, equipment and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures
 - 3.5 Incidents are reported and followed up as required in accordance with workplace procedures
 - 3.6 Relevant person/s is notified of work completion in accordance with workplace procedures
 - 3.7 Work completion documentation is completed accurately 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 UEGNSG349 Carry out surveillance of 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 UEGNSG034 Carry out surveillance of gas transmission pipelines

Modification History

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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 workplace safety requirements, including:
 - identifying and reporting hazards
 - implementing risk control measures
 - maintaining a safe workplace
- analysing surveillance information
- applying problem-solving techniques, including implementing solutions
- applying sustainable energy and environmental, cultural and heritage principles and practices
- carrying out ground surveillance on gas transmission pipelines
- communicating effectively with others
- completing work and relevant documentation, including:
 - completing required documentation and reports
 - following work schedule, safety plan and job requirements
 - working within agreed timeframes
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following workplace procedures
- identifying encroachments, easement breaches, faults and risks and taking appropriate action
- preparing to carry out surveillance of gas transmission pipelines
- selecting correct materials, equipment, tools and personal protection equipment (PPE)
- working in accordance with relevant work permit/notifications and landholder agreements.

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:

- cultural and heritage requirements in relation to pipeline surveillance

- effective communication techniques
- overview of pipelines, components and their respective functions
- problem-solving techniques
- quality checks
- relevant industry standards, guidelines, codes of practice and regulations
- relevant plant, tools, equipment, measuring devices and PPE
- relevant stakeholders
- relevant work permits and/or notifications
- 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 workplace policies and procedures
- relevant workplace documentation
- site preparation, safety plans, job requirements and work schedules.

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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