



Australian Government

UEGNSG032 Carry out aerial surveillance of gas transmission pipelines

Release: 1

UEGNSG032 Carry out aerial 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 aerial surveillance of gas transmission pipelines, easements and/or surrounding environments. It includes identifying non-conformance, completing work and relevant documentation, and reporting in accordance with relevant legislation, codes of practice, regulations, standards and workplace procedures.

It includes threat mitigation through identification of system non-conformance in accordance with organisational and statutory requirements.

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 aerial 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, 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 aerial surveillance of gas transmission pipelines to identify non-conformance**
 - 2.1 Workplace safety and environmental risk control measures, schedule of work and workplace procedures for carrying out work are followed
 - 2.2 Aerial surveillance of pipelines, easements and/or surrounding environments is conducted and faults and/or security breaches/threats reported to relevant person/s in accordance with workplace procedures
 - 2.3 Surveillance information is analysed, key issues identified, and information evaluated for relevance/validity to the job requirements and confirmed by site inspection, as required
 - 2.4 Dealings with stakeholders are consistent with workplace procedures and the special needs of customers are identified and considered in targeting client service

- 2.5 Appropriate materials, tools and equipment are selected and used safely in accordance with manufacturer instructions and workplace procedures
 - 2.6 Work is completed within agreed timeframe and to industry standards in accordance with job requirements and workplace procedures
 - 2.7 Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures
 - 2.8 Alarms, codes and hazard warnings are correctly recognised, and the correct response strategy is selected and applied in accordance with workplace procedures
 - 2.9 Additional works in the vicinity of the pipelines are identified and reported to 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 Information gathered is analysed, anomalies and options are communicated to relevant stakeholders and implemented, as required, in accordance with work schedule and workplace procedures
 - 3.2 Workplace safety risk control measures for work completion are followed
 - 3.3 Quality and safety checks of the work are conducted in accordance with job requirements, workplace procedures and community and industry standards
 - 3.4 Tools, equipment and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures
 - 3.5 Observations and anomalies are documented and processed, and relevant person/s advised in accordance with workplace procedures
 - 3.6 Incidents are reported and followed up as required 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 UEGNSG353 Carry out aerial 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 UEGNSG032 Carry out aerial 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 workplace safety requirements, including:
 - maintaining a safe workplace
 - identifying and reporting hazards
 - implementing risk control measures
 - working safely with hazardous materials and equipment
- analysing surveillance information
- applying planning skills
- applying problem-solving techniques
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying sustainable energy and environmental principles and practices
- carrying out aerial surveillance of gas transmission pipelines, easements and/or surrounding environments
- communicating effectively with others
- completing work and relevant documentation
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following work schedule, safety plan and job requirements
- following workplace procedures
- identifying and evaluating threats to the integrity of transmission pipelines
- identifying faults
- identifying non-conformance
- implementing solutions
- preparing to carry out aerial surveillance of gas transmission pipelines
- recording and reporting information
- 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:

- effective communication techniques
- gas industry facilities and infrastructure
- gas industry products, processes and characteristics
- gas transmission pipeline surveillance
- problem-solving techniques
- relevant facility and pipeline drawings, plans, maps, data and diagrams
- relevant gas industry documentation
- relevant industry standards, guidelines, codes of practice and regulations
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety analysis (JSA) or risk mitigation processes
- relevant stakeholders, including authorised persons, authorities, landowners and clients
- relevant tools, equipment 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
- security breaches
- signs, symbols, terminology and legends as used in gas industry
- site preparation, safety plans, job requirements and work schedules
- techniques to analyse surveillance information.

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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