



Australian Government

UEGNSG218 Carry out surveillance on gas distribution assets

Release: 1

UEGNSG218 Carry out surveillance on gas distribution assets

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 prepare and carry out surveillance on gas distribution assets, and complete work and relevant documentation in accordance with relevant legislation, industry standards, codes of practice and workplace procedures.

It includes identifying system non-conformances by monitoring the area/third-party area for security conditions and inspecting the system's 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 Distribution

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to carry out surveillance on gas distribution assets

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, cultural and heritage measures for the site are identified, obtained and applied

- 1.2 Job requirements and workplace procedures for the surveillance 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
 - 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 and environmental 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 authorisation/permit/notification is obtained and confirmed with relevant person/s in accordance with workplace procedures
 - 1.7 Plant, equipment, tools and personal protective equipment (PPE) required for gas distribution pipeline surveillance work are identified, 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 confirmed, scheduled and obtained in accordance with established procedures
 - 1.8 Communication issues with relevant stakeholders are resolved, where necessary
 - 1.9 Person/s participating in the work are briefed and responsibilities confirmed in accordance with workplace procedures
 - 1.10 Site preparation, safety plan and work schedule are confirmed with relevant person/s in accordance with workplace procedures
- 2 **Carry out surveillance on gas distribution assets**
 - 2.1 WHS/OHS risk control measures, schedule of work and workplace procedures for carrying out work are followed
 - 2.2 Relevant materials, tools, equipment and measuring devices are selected and used correctly and safely in

accordance with workplace procedures and manufacturer instructions

- 2.3 Dealings with customers are consistent with workplace procedures and the special needs of customers are identified and considered in targeting client service
- 2.4 Surveillance 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
- 2.5 Leakages and damaged assets, structures, systems and fittings are recorded in accordance with the work schedule and workplace procedures
- 2.6 WHS/OHS risks and incidents are reported to authorised person/s for directions in accordance with workplace procedures
- 2.7 System breaches, faults and unplanned events are identified and resolved, where possible, and operational condition of the network reported to relevant person/s in accordance with workplace procedures
- 2.8 Key issues are identified and solutions/options developed, implemented and communicated to relevant stakeholders in accordance with workplace procedures

3 Complete work and relevant documentation

- 3.1 WHS/OHS risk control measures for work completion are followed
- 3.2 Work area is tidied and made safe in accordance with workplace procedures
- 3.3 Tools and equipment are cleaned, checked and securely stored in accordance with workplace procedures
- 3.4 Relevant person/s are notified of work completion, non-conformances and proposed solutions/options in accordance with workplace procedures
- 3.5 Surveillance completion documentation and relevant records, reports and documentation are completed 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.

carrying out surveillance on gas distribution assets must include:

- different types of surveillance, i.e. vehicle and foot
- liaison with affected land owners and relevance of properties
- identification and recording non-conformances in accordance with surveillance schedules, including:
 - pressure/flow
 - damaged assets
 - pipes and fittings

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG218A Carry out surveillance on gas distribution assets.

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 UEGNSG218 Carry out surveillance on gas distribution assets

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, performance criteria and range of conditions on at least two separate occasions and include:

- analysing surveillance information
- applying problem-solving techniques and implementing solutions
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - maintaining a safe workplace
 - hazard identification and reporting
 - implementing risk control measures
- applying sustainable energy and environmental, cultural and heritage principles and practices
- carrying out surveillance on gas distribution assets, including completing surveillance work
- communicating effectively with others, including relevant stakeholders
- completing required documentation and reporting
- 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 leaks, damaged assets, structures, systems, pipes and fittings
- identifying system/asset breaches, faults and non-conformances
- interpreting relevant drawings, plans and diagrams
- selecting and using correct materials, equipment, tools, personal protection equipment (PPE) and measuring devices
- working in accordance with relevant work permit/notifications
- working within agreed timeframes.

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:

- cultural and heritage requirements in relation to pipeline surveillance
- effective communication techniques
- information gathering techniques
- landholder engagement
- pipeline risks managed through surveillance
- problem-solving techniques
- quality checks including:
 - techniques to identify damaged and leaking assets, structures, systems and fittings
 - techniques to identify system breaches and faults
 - types of assets
- relevant industry standards, guidelines, codes of practice and regulations
- relevant manufacturer specifications
- relevant materials, drawings, plans and diagrams
- relevant plant, tools, equipment, measuring devices and PPE
- relevant stakeholders, including authorised persons, authorities, land owners and clients
- relevant work permits and/or notifications
- relevant workplace documentation, including safety plans, work schedules and jobs requirements
- relevant workplace policies and procedures
- relevant WHS/OHS legislated requirements, including:
 - hazards, risk assessment and control measures
 - environmental and sustainable energy principles and practices
- surveillance work techniques, including different types of surveillance methods and 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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