



Australian Government

UEGNSG311 Site control of third party works in the vicinity of a transmission pipeline

Release: 1

UEGNSG311 Site control of third party works in the vicinity of a transmission pipeline

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 plan, control and monitor third-party works in the vicinity of a transmission pipeline to ensure the integrity of the pipeline is not compromised.

It includes applying relevant legislation, codes of practice, regulations, standards and workplace procedures; and completing work and relevant documentation.

Third-party works include excavation, seismic activities and the use of explosives, vibrating rollers and the effect of additional loads on the pipeline.

This unit applies to any basic and safe work site where gas and petrochemical liquids industry operations occur.

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.

PERFORMANCE CRITERIA

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

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|---|--|
| 1 Plan to undertake site control of third-party works in the vicinity of a transmission pipeline | <p>1.1 Work schedule/s, drawings, plans, job requirements, materials and equipment are examined to assess the extent of preparation required for the third-party work</p> <p>1.2 Work is prioritised and sequenced for completion within acceptable timeframes following consultation with relevant person/s in accordance with workplace procedures</p> <p>1.3 Hazards and work health and safety (WHS)/occupational health and safety (OHS) risk are identified and prioritised and control measures implemented and monitored</p> <p>1.4 Job requirements and workplace procedures for the work are obtained for all work sites and communicated to relevant person/s</p> <p>1.5 WHS/OHS, environmental and sustainable energy policies and procedures related to the work are obtained to ensure safe systems of work are followed</p> <p>1.6 Relevant work permits are obtained to coordinate and perform the work in accordance with regulatory requirements and workplace procedures</p> <p>1.7 Resources, including third parties, equipment, tools and personal protective equipment (PPE) required for the job are identified, scheduled, coordinated and confirmed in a safe and technical working order</p> <p>1.8 Clients are provided with possible solutions and options within the scope, acceptable cost and job requirements</p> <p>1.9 Communication issues with authorised persons, authorities, clients and land owners are resolved and work coordinated in accordance with work schedule and workplace procedures</p> <p>1.10 Persons participating in the work, including plant operators and contractors, are briefed, inducted and responsibilities coordinated and authorised as required in accordance with workplace procedures</p> |
| 2 Conduct and monitor site control of third-party works | <p>2.1 WHS/OHS and environmental risk control measures and policies and procedures are followed in accordance with workplace procedures</p> |

- 2.2 Hazardous activities are performed safely in accordance with regulatory requirements and workplace procedures
 - 2.3 Equipment faults are identified through inspection and testing of operational equipment in accordance with work schedule and job requirements
 - 2.4 Hazard warnings and safety signs are recognised; and hazards and WHS/OHS risks assessed and reported to authorised person/s for directions in accordance with workplace procedures
 - 2.5 Operating conditions of equipment and pipeline are monitored and observed to ensure correct operating parameters are maintained in accordance with workplace procedures
 - 2.6 Negotiations with third parties to control the threat to the pipeline are carried out to ensure the pipeline can be accessed and monitored in accordance with workplace procedures and job requirements
 - 2.7 Fault-finding and troubleshooting techniques are applied to identify any repairs or maintenance required in accordance with job requirements and workplace procedures
 - 2.8 Third-party works are coordinated to ensure completion in agreed timeframe and to industry standards with a minimum of waste in accordance with job requirements
 - 2.9 Unplanned events and non-routine problems are identified and actioned in accordance with workplace procedures
 - 2.10 Quality and safety checks of the third-party work are conducted in accordance with job requirements, workplace procedures and community and industry standards
- 3 Complete site control of third-party works and relevant documentation**
- 3.1 Work undertaken is checked against work schedule for conformance and anomalies and proposed solutions reported in accordance with workplace procedures
 - 3.2 Accidents and injuries are reported in accordance with requirements and workplace procedures
 - 3.3 Work site is rehabilitated/cleaned up and confirmed safe and in accordance with workplace procedures

- 3.4 Tools, equipment and any surplus resources and materials are cleaned, checked and returned to storage in accordance with workplace procedures
- 3.5 Relevant work permit/s are signed off accordance with requirements and workplace procedures
- 3.6 Work completion records, reports and as installed/modified drawing/s and documentation are completed, processed and the appropriate person/s notified 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG311B Site control of third party works in the vicinity of a transmission pipeline.

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 UEGNSG311 Site control of third party works in the vicinity of a transmission pipeline

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 and performance criteria on at least two separate occasions and include:

- applying planning skills
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - applying safe manual handling techniques
 - ensuring emergency response procedures are in place
 - hazard identification and reporting
 - implementing risk control measures
 - maintaining a safe and clean workplace
 - conducting negotiations
 - working safely with hazardous materials and equipment
 - selecting and using correct personal protective equipment (PPE)
- applying sustainable energy and environmental principles and practices
- communicating effectively in the workplace
- completing relevant documentation, records, reports and drawings
- completing site control of third-party works
- conducting and monitoring site control of third-party works
- conducting briefings and inductions
- conducting quality and safety checks
- contacting relevant organisations to determine utility service locations
- controlling threats to the integrity of transmission pipelines
- coordinating third parties
- dealing with unplanned events
- following workplace procedures
- identifying and evaluating threats to the integrity of transmission pipelines
- inspecting and testing
- interpreting technical drawings and plans
- obtaining and signing off relevant work permits

- operating pipe locator
- planning to undertake site control of third-party works in the vicinity of a transmission pipeline.

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:

- coatings for corrosion protection
- communication techniques at a supervisory level
- construction and excavation machinery
- effective operation of gas industry plant, equipment and materials
- environment protection procedures
- environmental and sustainable energy principles and practices
- external interference physical and procedural protection measures
- fault-finding and troubleshooting techniques
- gas industry drawings
- gas industry products, processes and characteristics
- gas industry reports, forms and documentation
- hazardous activities, including lifting, climbing, working in confined spaces and aloft, and use of power tools
- problem-solving techniques
- properties of gas and petrochemical liquids
- relevant industry standards, guidelines, codes of practice and regulations
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements, including:
 - hazardous materials and the equipment and processes used to safely work with these
 - responding to emergency and accident situations
 - safe manual handling techniques in the workplace
 - working safely in the gas industry by reducing risk and using correct PPE
- relevant work permits
- relevant workplace forms and reports
- relevant workplace policies and procedures
- requirements and techniques for safe excavations
- requirements for safe loading on a pipeline
- requirements for safe use of explosives near a pipeline
- requirements for safe use vibrating rollers in the vicinity of a pipeline
- selection, use and application of materials
- topographical maps and information
- transmission pipeline third parties

- work activity requirements
- working in the gas sector.

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

Links

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