



Australian Government

UEGNSG301 Conduct emergency site control on gas transmission assets

Release: 1

UEGNSG301 Conduct emergency site control on gas transmission assets

Modification History

Release 1. This is the first release of this unit of competency in the UEG - Gas Industry Training Package.

Application

This new unit involves the skills and knowledge required to coordinate with varied stakeholders during an onsite gas emergency on gas transmission assets.

Stakeholders include emergency service managers, asset owners, emergency response personnel, police and fire responders, and repair crews to ensure site control and safety is maintained while effectively controlling key response activities.

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 for site control of emergency on gas transmission assets

PERFORMANCE CRITERIA

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

- 1.1** Workplace procedures and contingency plans for dealing with emergencies and critical incidents are identified
- 1.2** Emergency is evaluated and activities are identified and

sequenced for the most efficient and effective outcome

- 1.3 Work schedule/s, drawings, plans, job requirements and material lists are obtained, analysed and confirmed
- 1.4 Identified repair/modification communicated is communicated to relevant stakeholders in accordance with workplace procedures
- 1.5 Work health and safety (WHS)/occupational health and safety (OHS), environmental and sustainable energy policies and procedures related to the work are identified to ensure safe systems of work are followed
- 1.6 Relevant stakeholders, public and emergency services, repair crews included in the coordination are determined and consulted as required
- 1.7 Key actions, events and communications are documented in a log of events
- 1.8 WHS/OHS hazards and risks are identified, assessed and prioritised

2 Coordinate with varied stakeholders during an onsite gas emergency

- 2.1 WHS/OHS and environmental risk control measures and policies and workplace procedures are implemented and monitored in accordance with workplace procedures
- 2.2 Communication with relevant stakeholders, public and emergency services, repair crews, clients and landowners are conducted and coordinated in accordance with workplace procedures
- 2.3 Key response activities are coordinated to ensure completion to required industry and asset owner standards
- 2.4 Actions are taken to reduce the effect of the incident to minimise threats to the public, pipeline, gas transmission assets, facilities and environment in accordance with requirements, incident response strategy and workplace procedures
- 2.5 Incident is continually monitored and assessed for changes and responded to in accordance with incident response strategy and workplace procedures
- 2.6 Unplanned situations are responded to in accordance with workplace procedures in a manner that minimises

risk to personnel and equipment

- 2.7** Coordination is done to ensure affected assets are inspected, tested and secured and quality and safety checks of work undertaken in accordance with industry standards and workplace procedures

3 Conclude site control of emergency on gas transmission assets

- 3.1** Coordination is conducted with relevant person(s) to ensure that system is recommissioned to meet industry requirements and work undertaken is checked against work schedule for conformance and anomalies reported in accordance with workplace procedures
- 3.2** Work completion documentation, records and reports are completed, processed and appropriate stakeholders notified
- 3.3** Accidents and injuries are reported as required in accordance with workplace procedures
- 3.4** Emergency response is evaluated with relevant stakeholders, public and emergency services, repair crews, clients, landowners and regulatory bodies in accordance with workplace procedures
- 3.5** Debriefing is conducted with relevant stakeholders to review incident response procedures and develop recommendations for changes to workplace procedures, as required
- 3.6** Accurate records and drawings are completed and submitted to reflect repairs and modifications

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 is a new unit.

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 UEGNSG301 Conduct emergency site control on gas transmission 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 and performance criteria on at least two separate incident scenarios and include:

- analysing and assessing incident information
- applying contingency plans
- applying environmental and sustainable energy principles and practices
- applying planning skills
- applying relevant legislation, standards, regulations and codes of practice
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency response procedures
 - hazard identification and reporting
 - implementing risk control measures
 - maintaining a suitable exclusion zone
 - selecting and using correct personal protective equipment (PPE)
 - working safely with hazardous materials and equipment
- communicating and coordinating activities with relevant stakeholders, including:
 - asset owners, land owners and users
 - emergency response organisations
 - emergency response personnel
 - emergency service managers
 - police and fire responders
 - regulatory bodies
 - relevant customers and suppliers
 - repair crew
 - the media
 - workplace colleagues
 - workplace managers
- communicating effectively in the workplace
- completing procedures for managing critical incidents

- completing relevant workplace documentation, reports and records
- coordinating the recommissioning gas transmission system to operational conditions and notifying relevant stakeholders of completion of work
- dealing with unplanned events and situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- evaluating, responding and reporting threats and incidents to gas transmission assets
- implementing incident response strategies
- minimising threats to the public, pipeline, assets, facilities and environment
- monitoring and assessing incident for changes
- monitoring field work
- operating communications equipment
- participating in debrief
- preparing and planning for coordination of repairs and modifications of gas transmission assets
- preparing to manage critical incidents
- responding correctly to alarms
- updating records and drawings to reflect repairs/modifications
- using relevant field permit to work systems.

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:

- awareness of steel anomaly assessment and criteria
- communication techniques required in a supervisory role
- comply with environmental and cultural issues requirements
- consideration for pressure reduction in consultation with relevant stakeholders, including automatic pressure reduction triggers
- contingency plans
- debriefs
- emergency and accident situations
- emergency management in the gas sector
- emergency/incident control procedures
- gas industry products, processes and characteristics
- gas industry reports and documentation
- general principles associated with pipelines and other gas infrastructure
- hazards, risk assessments and control measures
- identification of relevant gas industry plant, equipment materials, including abnormal operating conditions
- incident response strategies
- pipeline operational parameters
- problem-solving techniques

- procedure for escalating emergencies
- relevant gas industry documents
- relevant legislation, standards, regulations and codes of practice, including AS 2885 Pipelines - Gas and liquid petroleum
- relevant manufacturer specifications
- relevant permits and notifications required
- relevant safe work method statements (SWMS), job safety assessments and risk mitigation processes
- relevant sections of the pipeline and associated standards and legislation, including AS 2885 Pipelines - Gas and liquid petroleum
- relevant stakeholders, including:
 - asset owners, land owners and users
 - emergency response organisations
 - emergency response personnel
 - emergency service managers
 - police and fire responders
 - regulatory bodies
 - relevant customers and suppliers
 - repair crew
 - the media
 - workplace colleagues
 - workplace managers
- relevant WHS/OHS regulations, policies and procedures
- relevant workplace documentation
- relevant workplace policies and procedures
- safe working practices for managing emergencies and critical incidents for gas infrastructure and assets
- security breach procedures
- strategies for dealing with difficult situations.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

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 personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

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