



Australian Government

UEGNSG018 First on site response to gas pipeline emergencies

Release: 1

UEGNSG018 First on site response to gas pipeline emergencies

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 first on-site response to a gas distribution or transmission pipeline emergency incident, and complete response and relevant documentation.

These incidents may include gas escapes, gas outages, security breaches, fires, injury and damage.

It includes carrying out first on-site emergency response by assessing the extent of the situation and type of incident, making the area safe and reporting back to response/control centre.

It also includes liaising with other authorities and emergency services, remaining on site and maintaining site safety until support arrives as required.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not Applicable

Competency Field

Gas Distribution and Transmission

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan first on-site

PERFORMANCE CRITERIA

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

1.1 Workplace safety and environmental measures for the

emergency response	site are identified, obtained and applied
	1.2 Details of incident are confirmed with supervisor, control centre and/or radio room in accordance with workplace procedures
	1.3 Incident response is discussed with relevant person/s to establish and confirm the work schedule
	1.4 Workplace safety, environmental and sustainable energy policies and procedures are obtained and applied in accordance with workplace procedures
	1.5 Hazards are identified, workplace safety risks are assessed, and control measures are prioritised, implemented and monitored in accordance with workplace procedures
	1.6 Work permits and/or notifications are obtained as required to ensure the work is approved, recorded, coordinated and performed safely in accordance with workplace procedures
	1.7 Equipment, tools and personal protective equipment (PPE) needed to carry out work activities are identified, scheduled, obtained and checked for correct operation and safety in accordance with workplace procedures and manufacturer instructions
	1.8 Supervisor, coordination centre, emergency authorities and landowners are communicated with regularly to confirm the emergency response in accordance with workplace procedures
	1.9 Persons participating in the emergency response are fully briefed and responsibilities coordinated and authorised in accordance with workplace procedures
	1.10 Site preparation, safety plan, first aid and related workplace safety procedures and work schedule are confirmed in accordance with workplace procedures
2 Carry out first on-site emergency response	2.1 Workplace safety and risk control measures, schedule of work and workplace procedures for carrying out emergency response are followed
	2.2 A safe work zone is established on site and reported back to relevant stakeholders in accordance with workplace procedures

- 2.3 First aid and other emergency procedures are performed, as required, in accordance with workplace procedures
 - 2.4 Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures
 - 2.5 Alarms, codes and hazard warnings are correctly recognised, and the correct response strategy is selected and applied in accordance with workplace procedures
 - 2.6 Equipment and systems are monitored to ensure correct operation and performance in accordance with manufacturer instructions and workplace procedures
 - 2.7 Liaison with third parties and relevant stakeholders is maintained to ensure pipeline is monitored and threat to the pipeline is determined and communicated in accordance with workplace procedures
 - 2.8 Supervisor, coordination centre, emergency authorities and landowners are communicated with regularly to keep them updated on the emergency response in accordance with workplace procedures
 - 2.9 Preliminary evidence is collected from the scene in accordance with workplace procedures
 - 2.10 Gathered evidence is analysed and any repairs and/or maintenance required are identified in accordance with workplace procedures
 - 2.11 Site safety is maintained until support arrives in accordance with workplace procedures
 - 2.12 Unplanned events, including emergency level being escalated, are referred to authorised person/s for directions in accordance with workplace procedures
 - 2.13 Quality and safety checks of the work are conducted in accordance with job requirements, workplace procedures and community and industry standards
- 3 Complete response and relevant documentation**
- 3.1 Workplace safety risk control measures for work completion are followed
 - 3.2 Incidents and injuries are reported and followed up as required in accordance with workplace procedures

- 3.3 Incident site, reports, risk control measures and permit conditions are handed over to repair coordinator or relief response person in accordance with workplace procedures
- 3.4 Tools, equipment and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures
- 3.5 Work permit/s are completed and signed off in accordance with job requirements and workplace procedures
- 3.6 Work completion documentation is completed accurately and provided to relevant person/s in accordance with workplace procedures
- 3.7 Debriefing with relevant person/s is conducted to discuss strengths and weaknesses of incident response 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 supersedes and is equivalent to UEGNSG230 First on site response to gas pipeline emergencies.

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 UEGNSG018 First on site response to gas pipeline emergencies

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:

- analysing evidence to determine required repairs and/or maintenance
- applying environmental and sustainable energy principles and practices
- applying problem-solving techniques
- applying relevant legislation, standards, regulations and codes of practice
- applying relevant workplace safety requirements, including:
 - actioning and reporting accidents and incidents
 - identifying and reporting hazards
 - implementing risk control measures
 - recognising and assessing hazard warnings and safety signs
 - selecting and using relevant personal protective equipment (PPE)
 - undertaking hazardous activities in a safe manner
- assessing the incident and establishing a safe working site/zone
- carrying out first on-site emergency response plan and procedures
- communicating effectively with relevant persons, third parties and 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 manufacturer instructions
- following workplace policies and procedures
- handing over to relevant person/s
- identifying and evaluating threats to the gas pipeline and worksite
- investigating the incident and collecting evidence
- obtaining and using relevant materials and resources
- obtaining relevant work permits/authorisations
- participating in debrief
- planning first on-site emergency response.

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:

- combustible gas, characteristics and properties, including but not limited to natural gas, propane and hydrogen
- effective communication and liaison with relevant stakeholders, including:
 - workplace colleagues, supervisors and managers
 - relevant customers and suppliers
 - regulatory bodies
 - property/landowners (including traditional landowners) and tenants
 - emergency response organisations
 - repair coordinator or relief response person
 - plant operators and contractors
 - coordination centre, control centre and radio room
- emergency site assessment
- emergency/incident control procedures for applicable enterprise/worksites
- environmental and sustainable energy principles and practices
- escalation of emergency levels
- hazardous activities, including lifting, climbing, working in confined spaces and aloft, and use of power tools
- hazards, risk assessments and control measures
- first aid and other emergency response workplace procedures
- nature of a situation and preliminary assessment
- problem solving in a first response role
- relevant legislation, standards, regulations and codes of practice
- relevant permits and notifications required
- relevant resources, including people, tools, equipment, systems and PPE
- relevant workplace safety requirements, including:
 - legislated work health and safety (WHS)/occupational health and safety (OHS) requirements
 - technical specific requirements
 - workplace safety procedures
 - manufacturer requirements
- relevant workplace documentation, reports and records
- relevant workplace policies and procedures
- site investigation and evidence gathering techniques
- site preparation, work schedules and safety plans.

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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