



Australian Government

UEGNSG221 First on site response to gas pipeline emergencies

Release: 2

UEGNSG221 First on site response to gas pipeline emergencies

Modification History

Release 2: This is the second release of this unit of competency in the UEG Gas Industry Training Package.

- Minor typographic error corrected in a Pre-requisite Unit title.

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

CPPFES2005A Demonstrate first attack firefighting equipment

HLTAID003 Provide first aid

UEGNSG141 Apply workplace health and safety regulations, codes and practices in the gas supply industry

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 emergency response

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) and environmental measures for the 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** WHS/OHS procedures, environmental and sustainable energy measures and workplace policies and procedures are obtained and applied
- 1.5** Hazards and threats to the gas pipeline and work site are identified, WHS/OHS risks assessed and control measures are reported, 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** Resources including person/s, equipment, tools and personal protective equipment (PPE) required for the work are identified, scheduled, obtained and checked for correct operation and safety
- 1.8** Supervisor, coordination centre, emergency authorities and land owners are communicated with regularly to confirm the emergency response in accordance with workplace procedures
- 1.9** Person/s participating in the emergency response are fully briefed and responsibilities coordinated and authorised 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 first on-site emergency response

- 2.1** WHS/OHS 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 workplace procedures
- 2.5** Hazard warnings and safety signs are recognised and newly identified hazards assessed and WHS/OHS risks and incidents reported to authorised person/s for directions 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 land owners 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 is 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 checks are carried out in accordance with job instructions and workplace procedures

3 Complete response and relevant documentation

- 3.1** WHS/OHS risk control measures for work completion are followed
- 3.2** Any incidents and injuries are reported to relevant person/s and followed up in accordance with job requirements and 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, records reports and as installed/modified drawing/s are completed and provided to appropriate 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 replaces and is equivalent to UEGNSG221A 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 UEGNSG221 First on site response to gas pipeline emergencies

Modification History

Release 2: This is the second release of this unit of competency in the UEG Gas Industry Training Package.

- Minor typographic error corrected in a Pre-requisite Unit title.

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 work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - actioning and reporting accidents and incidents
 - hazard identification and reporting
 - 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 person/s, 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 work site
- 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:

- effective communication and liaison with relevant stakeholders, including:
 - workplace colleagues, supervisors and managers
 - relevant customers and suppliers
 - regulatory bodies
 - property/land owners (including traditional land owners) 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/work site
- 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 WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace documentation, report 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.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6a6c032e-ffcb-4f3d-8063-415efbd261e8>