



Australian Government

UEGNSG350 First response to a gas facility event

Release: 1

UEGNSG350 First response to a gas facility event

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 manage the first response to an unplanned gas facility event, assess the situation and take appropriate action, as required, in accordance with relevant legislation, codes of practice, regulations, standards and workplace procedures.

It includes managing the site response with the following priorities: protect human life, reduce trauma, maintain system safety, ensure system supply, protect the environment and protect property.

Facilities could include metering, compressors, valves, regulators, heaters, scraper, telemetry and odourisation.

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 industry

Competency Field

Gas Transmission

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Plan for first response to a gas facility event

- 1.1** Details of incident/threat to pipeline facility are confirmed with supervisor, control centre or radio room in accordance with workplace procedures
- 1.2** Specific requirements, drawings, plans, materials and equipment are examined and the extent of preparation required is assessed in accordance with workplace procedures
- 1.3** Work health and safety (WHS)/occupational health and safety (OHS) and environmental risk control measures are identified, evaluated and prioritised
- 1.4** Relevant requirements for the response are obtained for all work sites and communicated to all person/s in accordance with workplace procedures
- 1.5** WHS/OHS, environmental and sustainable energy policies and procedures are obtained and applied
- 1.6** Relevant work permit/s are obtained to coordinate the work in accordance with job/regulatory requirements and workplace procedures
- 1.7** Resources, including person/s, equipment, tools and personal protective equipment (PPE), required for the job are identified, coordinated, obtained and checked for correct operation and safety in accordance with workplace procedures
- 1.8** Communication issues with relevant stakeholders are resolved and response coordinated in accordance with requirements and workplace procedures
- 1.9** Person/s participating in the work, including plant operators and contractors, are briefed and responsibilities coordinated and authorised, as required, in accordance with workplace procedures
- 1.10** System status is confirmed through communication with pipeline control centre in accordance with workplace procedures
- 1.11** Site preparation, safety plan and work schedule are confirmed in accordance with workplace procedures

2 Manage first response to a

- 2.1** WHS/OHS and risk control measures, schedule of work and workplace procedures for carrying out the work are

gas facility event	followed
	2.2 First aid and other related work procedures are performed in accordance with requirements and workplace procedures
	2.3 Hazardous activities are safely exercised in accordance with regulatory requirements and workplace procedures
	2.4 Equipment faults are identified through inspection and testing of operational equipment in accordance with work schedule and job requirements
	2.5 Hazard warnings and safety signs are recognised, hazards and WHS/OHS risks are assessed and reported to authorised person/s for directions in accordance with workplace procedures
	2.6 Operating conditions of equipment are monitored through checking gauge levels, temperatures and flow indicators to determine performance of equipment and system
	2.7 Emergency authorities are liaised and communicated with, as required, to ensure the safety of the public and property
	2.8 Fault-finding and troubleshooting techniques are applied to identify any repairs or maintenance required in accordance with job requirements and workplace procedures
	2.9 Solutions to non-routine problems are identified and actioned in accordance with requirements
	2.10 Quality and safety checks of the work are undertaken in accordance with job requirements and workplace procedures
3 Complete gas facility event response and relevant documentation	3.1 Work undertaken is checked against work schedule for conformance and anomalies and proposed solutions identified and reported in accordance with workplace procedures
	3.2 Incidents and injuries are reported and followed up in accordance with requirements and workplace procedures
	3.3 Work site is rehabilitated/cleaned up and confirmed safe 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 in accordance with job requirements
- 3.6 Work completion records, reports, documentation and as installed/modified drawing/s are completed, processed and appropriate person/s notified

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 UEGNSG350A First response to a gas facility event.

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 UEGNSG350 First response to a gas facility event

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 occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - applying safe manual handling techniques
 - implementing risk control measures
 - reading and interpreting material safety data sheets (MSDS)/safety data sheets (SDS)
 - ensuring emergency response procedures are in place
 - maintaining a safe and clean worksite
 - working safely with hazardous materials and equipment
- applying negotiation skills
- applying planning skills
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant workplace policies and procedures
- applying sustainable energy and environmental principles and practices
- checking and operating relevant equipment and tools
- checking gauge levels, temperatures and flow indicators
- communicating effectively in the workplace
- completing gas facility event response
- completing relevant documentation, reports, records and drawings
- conducting briefings
- conducting quality and safety checks
- controlling initial threats to the integrity of pipeline facility
- dealing with unplanned events
- identifying abnormal conditions of stations and reporting
- identifying and evaluating threats to the integrity of pipeline facility
- inspecting and testing equipment
- interpreting technical drawings and plans
- managing first response to a gas facility event
- obtaining relevant work permits

- operating a gas detector
- operating multi-meters
- operating pipe locator
- performing first aid
- planning for first response to a gas facility event.

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:

- electrical fundamentals for the gas industry
- gas facility event response
- gas industry facilities and infrastructure
- gas industry products, processes and characteristics
- hazardous activities, including lifting, climbing, working in confined spaces and aloft
- operation of gas industry plant, equipment and materials
- pipeline licence conditions
- problem-solving techniques
- relevant gas industry documentation
- relevant industry standards, guidelines, codes of practice and regulations
- relevant WHS/OHS legislated requirements, including:
 - emergency, accident and incident situations
 - emergency/incident control procedures
 - environmental and sustainable energy principles and practices
 - hazard identification and reporting
 - hazardous and flammable materials
 - implementing risk control measures
 - MSDS/SDS and spill kits
 - Personal protective equipment (PPE)
 - risk assessment
- relevant workplace policies and procedures
- security breach procedures
- station functions, including identification of abnormal conditions of stations and reporting
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes
- relevant industry plant, equipment, tools and materials
- threats to the integrity of pipeline facility
- first aid
- fault-finding and troubleshooting techniques.

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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