



Australian Government

UEGNSG119 Manage workplace risk in a gas industry facility

Release: 1

UEGNSG119 Manage workplace risk in a gas industry facility

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 workplace risk management system and practices for a gas facility critical incident specific project.

It includes managing the development of a risk management system using risk management principles by mitigating risks in the work environment for a specific project and reviewing critical incident contingency plan in a gas facility.

This unit covers the managing of risk management systems and practices in the workplace. This unit refers to risk management principles, risk management plans, appropriate persons, authorisation, risks, hazards, control measures, relevant documentation, legislative requirements, emergency response exercises, emergency appliances, contingency plans and safety devices.

This unit applies to any safe work site where gas industry operations occur. It could also apply, where applicable to other workplaces in the electricity supply industry (transmission and distribution and generation), the electrotechnology industry and the water industry, work health and safety (WHS)/occupational health and safety (OHS) and duty of care requirements being met for the workplace.

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

Pre-requisite Unit

Not applicable

Competency Field

Cross Discipline Units

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Manage development of a risk management system using risk management principles

- 1.1** WHS/OHS principles and practices and environmental and sustainable energy workplace procedures which may influence risk management system are reviewed and determined
- 1.2** Risk management plan and purpose are determined after data is analysed and expected outcomes are confirmed with the appropriate persons
- 1.3** Organisational procedures on policies and specifications for the development of a risk management plan are obtained
- 1.4** Risk management system work roles and tasks are allocated in accordance with workplace requirements and person/s competency
- 1.5** Risk management work is prioritised and sequenced for the most effective outcome, completed within an acceptable timeframe to a quality standard and in accordance with workplace procedures
- 1.6** Liaison and communication with authorised persons, authorities and clients are undertaken to resolve issues and coordinated work activities

2 Manage the minimisation of risks in the work environment for a specific project

- 2.1** Decisions regarding the risk management plan are made on the basis of safety and effective outcomes in accordance with workplace requirements and workplace procedures
- 2.2** Specific data is analysed and compared with compliance specifications to ensure completion of the project within an agreed timeframe in accordance with workplace requirements
- 2.3** Risk management plan and critical incident report responsibilities are confirmed and managed for specific project activities to minimise risk
- 2.4** Project schedule to determine timeframe, work activities and procurement of materials is determined and applied
- 2.5** Workplace procedures and work instructions are identified and applied for project activities in accordance with risk management plan

- 2.6** Appropriate person/s are counselled, as required, for compliance with company risk management policies, workplace procedures and relevant documentation
 - 2.7** Appropriate person/s are assessed to ensure they comply with the company/site-specific procedures, health, safety and environmental requirements
 - 2.8** Project compliance and risk management plan is compared, evaluated and discrepancies reported in accordance with workplace policies, procedures and relevant documentation processes
- 3 Manage and review critical incident contingency plans**
 - 3.1** Critical incident report is obtained for evaluation to determine appropriate remedial measures in accordance with workplace policies, procedures and relevant documentation processes are completed
 - 3.2** Appropriate person/s training needs are determined for the type of emergency response exercise required in accordance with workplace policies, procedures and relevant documentation processes are completed
 - 3.3** Emergency appliances are determined, selected and secured appropriate to the type of emergency response exercise required in accordance with workplace policies and procedures
 - 3.4** Emergency appliances and safety devices are selected for testing in accordance with workplace policies and procedures, legislative requirements and manufacturer specifications
 - 3.5** Emergency response exercises are determined and conducted in accordance with developed contingency plans and monitored for performance and recorded accordingly
 - 3.6** Review of the risk management plan is undertaken to ensure it complies with workplace requirements, specifications and documentations needed to complete the project
 - 3.7** Risk management plan report is submitted to relevant persons for approval

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.

constants and variables must include the following:

- risk management principles
- risk management plans
- appropriate persons
- authorisation
- risks
- hazards
- control measures
- relevant documentation
- legislative requirements
- emergency exercises
- emergency appliances
- contingency plans
- safety devices

risk management principles must include the following:

- six categories of exposure:
 - personal, property, financial, environmental, product and administrative, and legislative compliance

risk management plan must include the following:

- WHS/OHS, procedure systems, vicarious liability, professional liability
- identification of hazards assessment of risks
- identification of control measures
- implementation of control measures and review of control measures
- reference to conduct and reporting of hazard and operability studies (HAZOPS) and hazard analysis studies (HAZANS) for critical incidents
- recognition of six categories of exposures (personal, property, financial, environmental, product and administrative, and legislative compliance)

risks (assessment for) must include the following:

- identification and use of manufacturer specifications and relevant industry standards
- contingency plans for response to critical incidents

hazards must include the following:

- injury
- death
- illness
- damage to plant/equipment
- financial loss
- non-compliance with legislation
- damage to products
- confined spaces
- gas
- electricity
- manual handling
- noise
- plant and equipment
- infected blood
- chemicals
- temperature
- lighting
- radiation

risk control measures must include the following:

- elimination of hazards
- work procedures
- personal protective equipment (PPE)
- fire safety
- plant and equipment isolation
- selection and training of appropriate persons
- communications with appropriate persons
- supervision of appropriate persons
- management of control measures

relevant documentation must include the following:

- relevant industry standards
- risk management policy
- codes of practice
- workplace procedures
- Australian Dangerous Goods
- trade practices
- WHS/OHS reporting requirements
- injury reporting
- claims management
- contractor control

emergency response exercises must include the following:

- hazardous substances management
- desktop and in-field simulation emergency exercises (involving fire, explosion, vapour/liquid leak excavated/ruptured pipeline)
- liquified petroleum gas (LPG) road/rail accidents
- loss of supply
- lost or unaccounted-for persons
- medical emergencies

emergency appliances must include the following:

- emergency trucks/trailers
- emergency plant (compressors, cranes, welding equipment etc)
- breathing apparatus
- firefighting equipment

contingency plans unit must include the following:

- emergency responses to a range of unplanned/abnormal operating conditions
- plans for responses to critical incidents
- prioritise proposed responses

risk management principle must include the following:

- six categories of exposures (personal, property, financial, environmental, product and administrative and legislative compliance)
- WHS/OHS procedure systems
- vicarious liability
- professional liability

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG119B Manage workplace risk in a gas industry facility.

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 UEGNSG119 Manage workplace risk in a gas industry facility

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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, performance criteria and range of conditions on at least two separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including using of risk control measures
- applying sustainable energy principles and practices
- dealing effectively with unplanned events in accordance with workplace procedures, in a manner that minimises risk to personnel and equipment
- managing and reviewing critical incident contingency plans
- managing identification and development of project risk management system using risk management principles
- managing the mitigation of critical incident risks in the work environment for a specific project.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- chemical and physical behaviours of gas
- communication for gas industry supervisors
- emergency management plan
- emergency management plan concepts and principles
- emergency response management techniques
- identification and implementation of control measures
- planning theory and processes
- planning theory and study of hazard and operability studies (HAZOPS) and hazard analysis studies (HAZANS)
- principles and guidelines, including critical incident analysis
- problem solving, decision making and conflict resolution
- problem solving, decision making and conflict resolution techniques
- project management techniques

- relevant manufacturer specifications, industry standards and codes of practice for the gas industry
- relevant job safety assessments or risk mitigation processes, including:
 - risk assessment, risk control and risk control measures
 - hierarchy of risk control
 - identifying hazards and their consequences
 - identifying hazards, assessing associated risks and implementing appropriate control measures
 - developing hazard checklists
 - reporting hazards, including hazardous events
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- safe design principles.

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 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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