



Australian Government

UEGNSG120 Manage gas system environmental compliance

Release: 1

UEGNSG120 Manage gas system environmental compliance

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 gas system environmental compliance.

It includes identifying, reviewing and documenting environmental and work health and safety (WHS)/occupational health and safety (OHS) management plan issues for a proposed gas system. It also includes facilitating negotiations for compliance with regulations, relevant industry standards and codes of practice.

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, subject to WHS/ 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

Elements describe the essential outcomes.

1 Identify and document

PERFORMANCE CRITERIA

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

1.1 WHS/OHS principles and practices and environmental

environmental issues for proposed gas system	and sustainable energy workplace procedures which may influence the system are reviewed and determined
	1.2 Legislative requirements are identified and impact assessments are organised, as required, in accordance with workplace procedures
	1.3 Organisational procedures on policies and specifications for the environmental work are obtained or determined with appropriate personnel
	1.4 Testing parameters are determined from organisational workplace procedures on policies and specifications
	1.5 Testing procedures are discussed with appropriate personnel to determine environmental project brief
	1.6 Equipment, tools and personal protective equipment (PPE) are selected and coordinated based on specified workplace requirements and procedures
	1.7 Work roles and tasks are allocated in accordance with workplace requirements and person/s competency
	1.8 Work is prioritised and sequenced for effective outcome, completed within an acceptable timeframe to industry quality standard and in accordance with workplace procedures
	1.9 Liaison and communication with authorised personnel, authorities, clients and land owners are undertaken to resolve environmental issues and coordinate work activities
	1.10 Risk control measures are identified, prioritised and evaluated against the work schedule
	1.11 Relevant work permits are secured to coordinate the performance of work in accordance with workplace requirements and procedures
2 Facilitate negotiations for environmental compliance with regulations, industry standards and codes of practice	2.1 Internal and external stakeholders are identified and relevant qualified persons are consulted on compliance needs
	2.2 Practicable negotiated decisions are made on the basis of safety and environmental compliance and effective outcomes in accordance with workplace requirements

and procedures

- 2.3 Technical advice is obtained regarding hazards, assessed risks and reasonably practicable risk control measures so that monitoring can be undertaken and appropriate authorities consulted, as required, in accordance with workplace requirements and procedures
- 2.4 Specific data is analysed and compared with compliance specifications to ensure completion of the project within an agreed timeframe in accordance with workplace requirements
- 2.5 Work teams are arranged to ensure planned goals are met in accordance with workplace procedures
- 2.6 Solutions to unplanned events are responded to in accordance with workplace procedures, in a manner that minimises risk to personnel and equipment
- 2.7 Quality of work is monitored against performance agreement and workplace, organisational and industry standards
- 2.8 Environmental strategic plan is developed incorporating organisation initiatives in accordance with workplace procedures

3 Review environmental and WHS/OHS management plan for a gas system

- 3.1 Environmental and WHS/OHS risks and their likely impacts for a gas system on the installation assets and to communities are identified and analysed to determine reasonably practicable control options
- 3.2 Options for addressing potential environmental impacts are identified, determined and costed
- 3.3 Requisite environmental and WHS/OHS management strategies are determined and recommendations made in accordance with workplace policies, procedures and processes
- 3.5 Inspections of the gas system work are undertaken to ensure compliance with requirements, specifications and documentations needed to complete the environmental project
- 3.6 Persons are notified of management plan for a gas system completion and reports and completion documents are finalised

- 3.7** Management plan reports and completion documents are submitted to relevant personnel and organisations for approval and as required, statutory or regulatory approval
- 3.8** Approved copies of documents are issued and records are updated 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.

constants and variables must include the following:

- gas systems
- legislative compliance
- environmental issues
- safety issues
- relevant personnel

gas system must include one (1) of the following:

- natural gas transmission, distribution and storage
- liquefied petroleum gas (LPG) tanker and ship transport
- storage and processing terminals and distribution systems

legislative compliance must include the following:

- WHS/OHS legislation
- relevant government acts, regulations and codes of practice
- relevant industry standards and codes of practice
- environmental legislative requirements

environmental issues must include the following:

- political
- legal
- community and aesthetic impact of installations

safety issues must include the following:

- WHS/OHS operatives
- ongoing maintenance of facilities

- relevant personnel must include at least six (6) of the following:
- emergency response plans
 - safety cases and environmental impact assessments for major hazardous facilities (MHFs)
 - managers
 - other supervisors
 - inter-company departments
 - other utilities
 - council representatives
 - producers, transporters/shippers
 - consultants
 - government bodies/agencies
 - refinery personnel
 - customers
 - land owners/traditional land owners
- relevant authorities must include the following:
- government authorities
 - land owners both current and traditional
 - local councils
 - land management groups
 - other utilities
 - in-house quality control groups and management

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG120B Manage gas system environmental compliance.

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 UEGNSG120 Manage gas system environmental compliance

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

- analysing data to ensure compliance with regulatory and workplace requirements
- 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
- developing environmental strategic plan for gas system environmental compliance
- facilitating compliance negotiations, including relevant gas industry regulations, industry standards and codes of practice
- identifying and documenting environmental issues for proposed gas system
- reviewing environmental and WHS/OHS management plans for a gas system.

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 behaviour of gases, and their effects in a gas system
- emergency management techniques in a gas industry environment
- gas system environmental compliance
- theory and study of hazard and operability (HAZOP) and hazard analysis (HAZAN)
- relevant job safety assessments or risk mitigation processes, including:
 - risk assessment, risk control and risk control measures
 - hierarchy of risk control
 - hazards and their consequences
 - hazards, assessing associated risks and implementing appropriate control measures
 - hazards and hazardous events
- relevant WHS/OHS legislated, industry standards and codes of practice for the gas industry

requirements

- relevant workplace documentation
- relevant workplace policies and procedures.

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 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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