



Australian Government

UEGNSG064 Operate and monitor pipeline control systems

Release: 1

UEGNSG064 Operate and monitor pipeline control systems

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 operate and monitor pipeline systems.

It includes monitoring, operating and identifying faults on pipeline control system, compression systems, prime movers, instrument and control systems and valve systems; and selecting and using relevant tools, equipment and testing devices to complete work and relevant documentation.

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

Pre-requisite Unit

Not applicable.

Competency Field

Gas Transmission

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan to operate and monitor pipeline control system

PERFORMANCE CRITERIA

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

- | | |
|------------|---|
| 1.1 | Workplace safety, environmental and sustainable energy practices for the site are identified, obtained and understood |
| 1.2 | Job requirements are obtained and interpreted from plans, specifications and instructions |

- 1.3 Relevant job requirements and workplace procedures for work activities are discussed with relevant person/s, including third parties, to determine and confirm work schedule and respective responsibilities
 - 1.4 Hazards are identified, workplace safety and environmental risks are assessed, and control measures are prioritised, implemented and monitored in accordance with workplace procedures
 - 1.5 Scope of responsibility under the relevant job requirements, including all work permits and/or relevant notifications, is determined and confirmed to access the services and perform work in accordance with job requirements and workplace procedures
 - 1.6 Equipment, tools and personal protective equipment (PPE) needed to carry out work activities are identified, obtained and checked for correct operation and safety in accordance with workplace procedures and manufacturer instructions
 - 1.7 Materials, plans, diagrams, drawings and resources required for work are confirmed and obtained in accordance with workplace procedures
 - 1.8 Network status is confirmed through communication with pipeline control centre in accordance with workplace procedures
- 2 **Operate and monitor pipeline control system**
 - 2.1 Workplace safety and environmental risk control measures, schedule of work and workplace procedures for carrying out work are followed
 - 2.2 Appropriate materials, tools and equipment are selected and used safely in accordance with manufacturer instructions and workplace procedures
 - 2.3 Work is completed within agreed timeframe and to industry standards in accordance with job requirements and workplace procedures
 - 2.4 Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures
 - 2.5 Operating conditions and performance of equipment and systems are monitored through checking gauge levels, temperatures and flow indicators in accordance

		with manufacturer instructions and workplace procedures and findings reported to relevant person/s
	2.6	Pipeline equipment and system performance information is monitored and reported to relevant person/s to ensure safe and efficient operation of the pipeline system in accordance with workplace procedures
3	Complete work and relevant documentation	
	3.1	Workplace safety risk control measures for work completion are followed
	3.2	Quality and safety checks of the work are conducted in accordance with job requirements, workplace procedures and community and industry standards
	3.3	Worksite is cleaned, reinstated and made safe in accordance with workplace procedures
	3.4	Network status is confirmed through communication with pipeline control centre in accordance with workplace procedures
	3.5	Tools, equipment, and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures
	3.6	Incidents are reported and followed up as required in accordance with workplace procedures
	3.7	Relevant person/s is notified of work completion in accordance with workplace procedures
	3.8	Work completion documentation is completed accurately and provided to relevant person/s 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 UEGNSG108 Operate and monitor pipeline control systems.

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 UEGNSG064 Operate and monitor pipeline control systems

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 industry standards, guidelines, codes of practice and regulations
- applying relevant workplace safety requirements, including:
 - ensuring emergency response procedures are in place
 - identifying and reporting hazards
 - implementing risk control measures
 - selecting and using correct personal protective equipment (PPE)
- applying sustainable energy and environmental principles and practices
- communicating with relevant authorities and stakeholders
- completing work and relevant documentation
- conducting quality and safety checks
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following workplace procedures
- interpreting technical drawings, plans and materials lists
- monitoring pipeline and system performance
- obtaining relevant work permits
- operating and monitoring the controls system
- rehabilitating and maintaining a clean worksite.

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:

- communication techniques
- gas industry products, processes and characteristics
- hazardous activities and high-risk construction work
- inspecting and testing procedures
- operating conditions and performance of equipment and systems

- pipeline systems operating parameters
- problem-solving techniques
- quality and safety checks
- relevant industry standards, guidelines, codes of practice and regulations
- relevant manufacturer specifications
- relevant plant, equipment, tools and materials
- relevant risk mitigation processes, including:
 - environmental and sustainable energy principles and practices
 - hazard warnings and safety signs
 - hazardous materials
 - hazards, risk assessment and control measures
 - PPE
 - site inspections
- relevant stakeholders, including:
 - authorised persons, authorities, clients, tenants and landowners
 - workplace colleagues
 - relevant customers and suppliers
 - pipeline control centre
 - regulatory bodies
 - emergency response organisations
- relevant technical drawings, plans and material lists
- relevant workplace safety requirements, including:
 - legislated work health and safety (WHS)/occupational health and safety (OHS) requirements
 - legislated industry/technical specific requirements
 - workplace safety procedures
 - manufacturer requirements
- relevant work permits
- relevant workplace documentation, records and reports
- relevant workplace policies and procedures
- types of pipeline control systems, including:
 - compression systems, prime movers, instrument and control systems, and valve systems.

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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