



Australian Government

UEGNSG050 Control field pipeline operations

Release: 1

UEGNSG050 Control field pipeline operations

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 control and monitor field pipeline operations on a gas pipeline.

It includes controlling and shutting down pipeline systems in case of emergencies, monitoring and identifying faults, selecting and using relevant tools and equipment, and completing relevant documentation and reports

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

Pre-requisite Unit

Not applicable.

Competency Field

Gas Cross Discipline

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan control of pipeline operations

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
- 2 **Control pipeline operations**
 - 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 Operating conditions, pressures and temperatures of the pipeline are monitored and observed to ensure correct operating parameters are maintained in accordance with workplace procedures
 - 2.4 Work is completed within agreed timeframe and to industry standards in accordance with job requirements and workplace procedures
 - 2.5 Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures
 - 2.6 Alarms, codes, and hazard warnings are correctly recognised, and the correct response strategy is

		selected and applied in accordance with workplace procedures
	2.7	Faults and operational conditions of the components are identified, repaired or replaced, and reported in accordance with organisational job requirements
3 Shut down pipeline system and complete 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	Emergency shutdown procedures are applied to equipment failure and work undertaken in accordance with workplace procedures
	3.4	Shutdown is completed in accordance with workplace procedures
	3.5	Pre-shutdown checks are completed, documented and shift handover is conducted in accordance with workplace procedures
	3.6	Tools, equipment and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures
	3.7	Incidents are reported and followed up as required in accordance with workplace procedures
	3.8	Relevant person/s is notified of work completion in accordance with workplace procedures
	3.9	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 Training Industry Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG109 Control field pipeline operations.

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 UEGNSG050 Control field pipeline operations

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 emergency shutdown procedures and response systems/strategies
- interpreting and understanding alarms, codes and hazard warnings
- applying problem-solving techniques
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant workplace safety requirements, including:
 - hazard identification and reporting
 - implementing risk control measures
 - selecting and using correct personal protective equipment (PPE)
 - working safely with hazardous materials and equipment
- applying sustainable energy and environmental principles and practices
- communicating with relevant stakeholders
- completing pre-shutdown checks
- 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
- interpreting technical drawings, plans and materials lists
- monitoring pipeline conditions, pressures and temperatures
- obtaining relevant work permits
- performing site inspections
- planning and controlling pipeline operations, including planning, prioritising and working in the gas industry
- rehabilitating and maintaining a clean worksite
- shutting down pipeline system and completing relevant documentation
- using relevant tools, equipment and materials.

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:

- characteristics of gas flows
- characteristics, operation, capabilities and limitations of relevant tools, equipment and pipeline facilities
- hazardous activities and high-risk construction work
- pipeline system operating parameters
- relevant alarm, codes, hazard warnings and communication systems
- relevant stakeholders, including:
 - authorised persons, authorities, clients, tenants and landowners
 - plant operators and contractors
 - workplace colleagues
 - relevant customers and suppliers
 - regulatory bodies
 - emergency response organisations
- 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 industry standards, guidelines, codes of practice and regulations, including:
 - industry terminology
 - manufacturer specifications
 - workplace policies and procedures
 - workplace permits and permit to work system
 - workplace documentation
- site inspections
- strategies for dealing with unplanned events/situations, including problem-solving 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.

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