



Australian Government

UEGNSG109 Control field pipeline operations

Release: 1

UEGNSG109 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

Cross Discipline Units

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** Work schedule, drawings, plans, job requirements and material lists are obtained, analysed and confirmed by site inspection, as necessary, and work planned and coordinated in accordance with workplace procedures
- 1.2** Work is prioritised and sequenced for completion within acceptable timeframes following consultation with

relevant person/s in accordance with workplace procedures

- 1.3** Hazards are identified, work health and safety (WHS)/occupational health and safety (OHS) risks are assessed and control measures prioritised, implemented and monitored in accordance with workplace procedures
- 1.4** Job requirements, work permit/s, resources and workplace procedures for the work are obtained for work site/s and communicated to relevant person/s in accordance with workplace procedures
- 1.5** WHS/OHS, environmental and sustainable energy policies and procedures are obtained and applied to ensure safe systems of work are followed
- 1.6** Relevant work permit/s are obtained to coordinate and perform work in accordance with regulatory and job requirements and workplace procedures
- 1.7** Relevant resources required for the work are identified and obtained in accordance with workplace procedures
- 1.8** Clients are provided with possible solutions and options within the scope, acceptable cost and job requirements parameters
- 1.9** Communication issues with relevant stakeholders are resolved and work coordinated in accordance with work schedule and workplace procedures
- 1.10** Person/s participating in the work are briefed and responsibilities coordinated and authorised in accordance with workplace procedures
- 1.11** Site is prepared to minimise risk and damage to property, commerce and individuals in accordance with the work schedule and workplace procedures

2 Control pipeline operations

- 2.1** WHS/OHS risk control measures and environmental policies and procedures are followed in accordance with workplace procedures
- 2.2** Hazardous activities are conducted safely in accordance with regulatory requirements 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** Alarms, codes and hazard warnings are correctly recognised and the correct response strategy is selected and applied in accordance with workplace procedures
 - 2.5** Remedial action/s are taken to address any shortfalls encountered in the work schedule in accordance with workplace procedures
 - 2.6** Work is coordinated to ensure completion in agreed timeframe and to industry standards with a minimum of waste in accordance with job requirements and workplace procedures
 - 2.7** Unplanned events and non-routine problems are identified and actioned in accordance with workplace procedures
 - 2.8** Quality and safety checks of the work are conducted in accordance with job requirements, workplace procedures and community and industry standards
- 3 Shut down pipeline system and complete relevant documentation**
- 3.1** Emergency shutdown procedures are applied to equipment failure and work undertaken in accordance with workplace procedures
 - 3.2** Accidents and injuries are reported and followed up as required in accordance with workplace procedures
 - 3.3** Work site is rehabilitated/cleaned up and confirmed safe 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

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.

resources must include at least seven (7) of the following:

- process control equipment
- station power supply
- heaters and heat exchanges
- station instrumentation
- drawings and schematics
- metering equipment and gas analysis equipment
- valves, actuators and flanges
- compressors and prime movers
- sumps and drains
- pipeline inspection gauges (PIGs)

monitoring systems must include at least four (4) of the following:

- use of fire and gas extinguishing and deluge systems
- emergency systems
- alarm and communication systems
- supervisory control and data acquisition (SCADA)
- prime movers and compression systems
- shutdown systems

pipeline faults must include the following:

- gas leaks
- electrical problems
- compressor or pump failure
- out-of-current inspection status
- gauge failure or hose rupture leaks
- instruments out of calibration
- non-flow of gas

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG109B 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>