



Australian Government

UEGNSG110 Supervise technical operations for gas distribution or transmission

Release: 1

UEGNSG110 Supervise technical operations for gas distribution or transmission

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 supervise technical operations for gas distribution or transmission project.

It includes preparing, selecting and using relevant resources, including equipment, tools and personnel; identifying, solving and monitoring operational faults; and completing relevant documentation.

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 Prepare to supervise operations

PERFORMANCE CRITERIA

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

- 1.1 Project activities are planned to prevent further damage and to ensure minimal disruption to gas supply
- 1.2 Work is prioritised and sequenced for completion within acceptable timeframes following consultation with

relevant person/s in accordance with job requirements and 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 and workplace procedures for work are obtained for all work sites and communicated to relevant person/s in accordance with workplace procedures
- 1.5** WHS/OHS workplace procedures and environmental and sustainable energy policies and procedures related to the work are identified, obtained and applied
- 1.6** Relevant work permit/s are obtained to coordinate and perform the work in accordance with workplace procedures, regulatory and job requirements and
- 1.7** Person/s, equipment, tools and personal protective equipment (PPE) required for the job are identified, scheduled, coordinated and checked for correct operation and safety in accordance with workplace procedures
- 1.8** Clients are provided with possible solutions and options within the scope, acceptable cost and project requirement parameters
- 1.9** Communication issues with relevant stakeholders are resolved and project activities coordinated in accordance with work schedule and workplace procedures
- 1.10** Person/s participating in the project work are briefed and responsibilities coordinated and authorised, as required, in accordance with workplace procedures
- 1.11** Project expenditure is forecast, monitored and managed in accordance with operational budget constraints

2 Supervise operations during project

- 2.1** WHS/OHS risk control measures are followed in accordance with workplace procedures
- 2.2** Equipment and systems are inspected, tested and faults identified in accordance with work schedule, job requirements and workplace procedures

- 2.3 Hazard warnings and safety signs are recognised, hazards and WHS/OHS risks assessed and reported to authorised person/s for directions in accordance with workplace procedures
 - 2.4 Fault finding and troubleshooting techniques are applied to identify repairs or maintenance required in accordance with project job requirements and workplace procedures
 - 2.5 Project work is supervised to ensure completion in agreed timeframe and to industry standards with a minimum of waste in accordance with job requirements and workplace procedures
 - 2.6 Unplanned situations are responded to in accordance with workplace procedures, in a manner that minimises risk to personnel and equipment
 - 2.7 Quality and safety checks of the work are undertaken in accordance with job requirements, workplace procedures and community and industry standards
 - 2.8 Relevant person/s are updated with project status/requirements in accordance with workplace procedures
- 3 **Complete project work and relevant documentation**
 - 3.1 Work undertaken is checked against project work schedule for conformance and anomalies and proposed solutions identified and reported to relevant person/s 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 Tools, equipment and surplus resources and materials are cleaned, checked and returned to storage in accordance with workplace procedures
 - 3.5 Relevant work permit/s are signed off in accordance with workplace procedures, job and regulatory requirements
 - 3.6 Project work completion records, reports, documentation and as installed/modified drawing/s are completed, processed and appropriate person/s notified

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.

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

- relevant personnel
- materials
- tools and equipment
- personal protective equipment (PPE)
- workplace procedures
- equipment manuals
- training resources

project activities must include at least three (3) of the following:

- maintenance, repairs and modifications
- construction and upgrade
- rectification of gas system faults
- installation and commissioning of new plant, piping and equipment
- system security
- scheduling work

authorities must include at least three (3) of the following:

- local and shire councils
- local government authorities
- road transport authorities
- rail departments
- landowners both current and traditional indigenous

gas system faults must include at least eight (8) of the following:

- gas leaks
- electrical problems
- mechanical failure
- out-of-current inspection status
- gauge failure, hose rupture/leaks
- instruments out of calibration
- non-flow of gas
- cathodic protection system failure

documentation must include at least eight (8) of the following:

- corrosion
- compressor breakdown
- filtration problems
- gas measurement equipment inaccuracy/failure
- contracts and specifications
- drawings and plans
- manufacturer specifications
- work permits
- company standard operation and safety procedures
- company management plans and policies
- hot work permits
- company forms and files
- WHS/OHS laws and codes of practice
- relevant government acts, regulations and codes of practice
- environmental legislative requirements
- pipeline licenses
- quality assurance
- commercial agreements

records/reports must include at least four (4) of the following:

- relevant documentation
- routine inspections (daily readings, monthly checks)
- scheduled maintenance activities
- mandatory or statutory inspections
- hazard and incident reports

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG110B Supervise technical operations for gas distribution or transmission.

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 UEGNSG110 Supervise technical operations for gas distribution or transmission

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:

- applying problem-solving techniques
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS), including:
 - applying inspecting and testing workplace procedures
 - identifying and reporting hazard
 - implementing risk control measures
 - selecting and using correct personal protective equipment (PPE)
 - working safely with hazardous materials and equipment
- communicating with relevant stakeholders
- completing project work and relevant records, reports and documentation
- conducting project quality and safety checks
- dealing with unplanned events/situations in accordance with workplace procedures, in a manner that minimises risk to personnel and equipment
- obtaining and complying with relevant work permits
- operating within project budget constraints
- performing operations during projects
- planning and supervising gas project operations
- prioritising and sequencing work to meet project timeframes
- rehabilitating and maintaining a clean work site.

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:

- effective communication techniques
- environmental and sustainable energy principles and practices

- operating principles of gas industry infrastructure and equipment, including pipelines and facilities
- problem-solving techniques
- project expenditure and budget constraints
- quality and safety checks
- relevant industry standards, guidelines, codes of practice and regulations
- relevant gas industry equipment, tools and materials
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes, including:
 - hazards, risk assessment and control measures
 - hazard warnings and safety signs
 - hazardous materials
 - PPE
- relevant stakeholders, including:
 - authorised persons, authorities, clients, tenants and land owners
 - plant operators and contractors
 - internal colleagues
- relevant timeframes
- relevant WHS/OHS legislated requirements
- relevant work permits
- relevant workplace policies and procedures, including procedures for identifying, diagnosing, assessing, analysing, locating and repairing faults in gas infrastructure
- relevant workplace records, reports and documentation.

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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