



Australian Government

UEGNSG804 Maintain single stage and single run gas flow and pressure control and measuring devices

Release: 1

UEGNSG804 Maintain single stage and single run gas flow and pressure control and measuring devices

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 maintain single stage and single run gas distribution flow, pressure regulating/control devices and measuring devices, and complete work and relevant documentation.

It includes single stage and single run regulator systems, manual control valves, diaphragm and sleeve regulators, and small capacity union connected positive displacement meters.

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

Pre-requisite Unit

Not applicable.

Competency Field

Gas Control Centre (Gas System Operations)

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to maintain gas flow, pressure control and measuring devices

PERFORMANCE CRITERIA

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

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) workplace procedures and environmental measures for the site are identified, obtained and applied
- 1.2** Plans, specifications and instructions for the work

schedule are obtained and discussed with relevant person/s in accordance with job requirements and workplace procedures

- 1.3** WHS/OHS, environmental and sustainable energy policies and procedures are obtained and applied in accordance with workplace procedures
- 1.4** Hazards are identified, WHS/OHS risks are assessed and control measures prioritised, implemented and monitored in accordance with workplace procedures
- 1.5** Scope of the responsibility under the relevant work permit and/or relevant notification to access, isolate/de-energise systems and perform work is obtained and confirmed with relevant person/s in accordance with job requirements and workplace procedures
- 1.6** Equipment, tools and personal protective equipment (PPE) required for the work are identified, scheduled, obtained and checked for correct operation and safety in accordance with workplace procedures
- 1.7** Relevant person/s are consulted to ensure the work is coordinated effectively with others involved
- 1.8** Materials, plans, diagrams, drawings and resources required to maintain the devices are confirmed, scheduled and obtained in accordance with workplace procedures
- 1.9** First aid, emergency and other related work safety procedures for an incident at the work site are checked and confirmed
- 1.10** Third-party issues are referred to relevant person/s in accordance with workplace procedures
- 1.11** Site preparation, safety plan and work schedule are confirmed with relevant person/s in accordance with workplace procedures

2 Maintain gas flow, pressure control and measuring devices

- 2.1** WHS/OHS risk control measures, schedule of work and workplace procedures for carrying out work are followed
- 2.2** Gas detectors are used to determine gas concentration levels at the work site to locate and pinpoint any gas escapes and supervisor advised of site safety in

accordance with workplace procedures

- 2.3** Materials, tools, equipment, PPE and measuring devices for the work are selected and used correctly and safely in accordance with manufacturer instructions and workplace procedures
- 2.4** Hazardous activities are conducted safely in accordance with WHS/OHS workplace procedures and job instructions
- 2.5** Work is carried out to the required standard, without waste of materials or damage to apparatus, circuits, and the surrounding environment or services using sustainable energy principles
- 2.6** Hazard warnings and safety signs are recognised, hazards assessed and WHS/OHS risks and incidents reported to authorised person/s for directions in accordance with workplace procedures
- 2.7** Information on gas flow, pressure measurement and control device performance is collected and reported in accordance with workplace procedures
- 2.8** Maintenance of components is conducted in accordance with work schedule and workplace procedures
- 2.9** Regulator, filter and meter components are set up and tested and system purged and pressurised in accordance with workplace procedures
- 2.10** Faults and operational conditions of the components are identified, repaired/replaced and reported in accordance with workplace procedures
- 2.11** Unplanned events are referred to relevant person/s for directions in accordance with workplace procedures
- 2.12** Quality and safety checks are carried out in accordance with job instructions and workplace procedures

3 Complete work and relevant documentation

- 3.1** WHS/OHS risk control measures for work completion and procedures are followed
- 3.2** Work site is tidied and made safe in accordance with workplace procedures
- 3.3** Tools, equipment and any surplus resources and materials are cleaned, checked and securely stored or

disposed of in accordance with workplace procedures

3.4 Relevant person/s are notified of work completion in accordance with workplace procedures

3.5 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.

work must be conducted in the following gas facilities:

- district and customer metering and regulator sets
- distribution line and path valves

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG804A Maintain Single Stage and Single Run Gas Flow and Pressure Control and Measuring Devices.

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 UEGNSG804 Maintain single stage and single run gas flow and pressure control and measuring devices

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) requirements, including:
 - hazard identification and reporting
 - recognising hazard warnings and safety signs
 - implementing risk control measures
- applying sustainable energy and environmental principles and practices
- collecting information on equipment performance
- communicating effectively with relevant person/s
- completing required documentation and reporting
- completing work and relevant documentation
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following schedules, procedures and manuals
- identifying and interpreting drawings, diagrams and plans
- locating and pinpointing gas escapes
- maintaining a clean and safe work site
- maintaining components and devices
- maintaining gas flow, pressure control and measuring devices
- operating, adjusting/testing, fault finding and maintaining components, pressure measurement, control and relief devices
- performing quality and safety checks
- preparing to maintain gas flow, pressure control and measuring devices
- referring third party issues
- selecting correct materials, equipment, tools, personal protection equipment (PPE) and measurement devices

- setting up, testing and purging components
- using gas detectors to determine site safety.

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:

- component purging
- environmental and sustainable energy principles and practices
- flow measurement equipment
- gas detectors
- gas distribution regulator facilities and components
- gas filtering systems types and components
- manual gas flow control and components
- pressure control equipment
- problem solving techniques
- quality and safety checks
- relevant equipment and component performance
- relevant equipment/component fault finding, repair and replacement
- relevant equipment/component maintenance
- relevant legislation, standards, codes, guidelines and regulations
- relevant manufacturers' specifications
- relevant materials, plans, diagrams, drawings and resources
- relevant permits/notifications required
- relevant PPE and safety equipment
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace policies and procedures
- reporting and documentation requirements
- safe gas concentration levels
- site preparation, work schedules, safety plans and job requirements
- techniques to minimise waste
- third-party issues.

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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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 PPE currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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