



Australian Government

UEGNSG022 Maintain single stage, single run pressure control devices

Release: 1

UEGNSG022 Maintain single stage, single run pressure control 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

UEGNSG006 Use a portable detector to locate a combustible gas escape

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** 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 Maintain gas flow, pressure control and measuring devices

- 2.1** Workplace safety and environmental 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 worksite to locate and pinpoint any gas escapes and supervisor advised of site safety in accordance with workplace procedures
- 2.3** Appropriate materials, tools and equipment are selected and used safely in accordance with manufacturer instructions and workplace procedures
- 2.4** Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures
- 2.5** Work is completed within agreed timeframe and to industry standards in accordance with job 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 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 or replaced, and reported in accordance with workplace procedures
- 2.11 Unplanned events are referred to the relevant person/s for directions 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 Tools, equipment and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures
- 3.5 Incidents are reported and followed up as required in accordance with workplace procedures
- 3.6 Relevant person/s is notified of work completion in accordance with workplace procedures
- 3.7 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 replaces and is equivalent to UEGNSG804 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 UEGNSG022 Maintain single stage, single run pressure control devices

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 problem-solving techniques
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant workplace safety requirements, including:
 - identifying and reporting hazards
 - recognising hazard warnings and safety signs
 - implementing risk control measures
- 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 worksite
- 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 and performance criteria and include knowledge of:

- component purging
- 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 manufacturer 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 analysis (JSA) or risk mitigation processes
- 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 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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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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