



Australian Government

UEGNSG019 Inspect, test and maintain gas cylinders

Release: 1

UEGNSG019 Inspect, test and maintain gas cylinders

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 inspect, test and maintain approved industrial gas cylinders, and complete work and relevant documentation.

It includes correctly and safely carrying out the work using appropriate materials, tools and equipment in accordance with relevant legislation, codes of practice, industry standards, regulations and workplace procedures.

Certification is required for industrial gas cylinder testing locations, and cylinder testing must be conducted under supervision and in accordance with industry standards and regulations.

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

Pre-requisite Unit

Not applicable.

Competency Field

Gaseous fuel Vessels

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to refurbish industrial gas cylinders

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
- 2 **Inspect, test and maintain industrial gas cylinders**
 - 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 Inspection, testing and maintenance of gas cylinders is carried out in accordance with job instructions, industry standards, regulations and 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 Cylinders that are damaged or do not comply to industry and safety standards are coded and condemned in accordance with workplace procedures
 - 2.6 Work is completed within agreed timeframe and to industry standards in accordance with job requirements and workplace procedures

- 2.7 Faults and operational conditions of the components are identified, repaired or replaced, and reported in accordance with organisational job requirements
 - 2.8 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
 - 3.3 Tools, equipment and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures
 - 3.4 Incidents are reported and followed up as required in accordance with workplace procedures
 - 3.5 Relevant person/s is notified of work completion in accordance with workplace procedures
 - 3.6 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 supersedes and is equivalent to UEGNSG616 Refurbish gas cylinders.

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 UEGNSG019 Inspect, test and maintain gas cylinders

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 and performance criteria on at least two separate occasions and include:

- applying environmental and sustainable energy principles and practices
- applying problem-solving techniques
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant workplace safety requirements, including:
 - applying safe manual handling techniques
 - identifying and reporting hazards
 - implementing risk control measures
 - recognising and assessing hazard warnings and safety signs
 - selecting and using relevant personal protective equipment (PPE)
 - undertaking hazardous activities in a safe manner
 - undertaking job safety analysis (JSA)
- coding and condemning damaged/non-complying cylinders
- communicating effectively with relevant person/s
- completing work and relevant documentation
- conducting inspection checks before returning cylinder to service
- confirming cylinder is pressure free prior to internal inspection or valve replacement
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following manufacturer instructions
- following workplace procedures
- inspecting, testing and maintaining industrial gas cylinders
- maintaining a clean and safe worksite
- performing quality and safety checks
- preparing to inspect test maintain industrial gas cylinders
- preparing worksite to minimise risk and damage to property, commerce and individuals
- recording inspection, testing and maintenance information accurately on gas industry forms and reports
- referring client issues

- selecting and operating correct tools and equipment
- working within agreed timeframes or conditions.

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:

- accidents and incidents associated with inspecting, testing and maintaining gas cylinders
- client issues
- environmental and sustainable energy principles and practices
- inspection and completion process
- industrial gas cylinders, including:
 - coding
 - condemning and disposal
 - inspection requirements
 - leak testing requirements
 - safety data sheets (SDS)
 - industrial gas, characteristics and properties, including but not limited to propane, butane, propylene, nitrogen, oxygen, carbon dioxide, argon, hydrogen, helium and acetylene
 - maintenance requirements
 - types, construction, size, valves and labelling
- PPE, including types, application, checking, maintenance and storage
- problem-solving techniques
- quality and safety checks
- relevant industry standards, legislation, guidelines, codes of practice and regulations
- relevant manufacturer specifications
- relevant materials, tools and equipment
- relevant safe work method statements (SWMS)/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
- relevant workplace documentation
- relevant workplace policies and procedures
- site preparation, work schedules, safety plans and job requirements
- storage of dangerous goods
- time-management skills
- workplace quality requirements
- workplace reporting requirements.

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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