



Australian Government

UEGNSG017 Fill by weight industrial gas cylinders

Release: 1

UEGNSG017 Fill by weight industrial 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 and fill by weight industrial gas cylinders, and complete work and relevant documentation.

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

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

Pre-requisite Unit

Not applicable.

Competency Field

Industrial Gas, Storage Handling and Distribution

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to fill 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 Recommendations to assist with the filling of gas cylinders are made to others involved in the work in accordance with workplace procedures
 - 1.5 Hazards are identified, workplace safety and environmental risks are assessed, and control measures are prioritised, implemented and monitored in accordance with workplace procedures
 - 1.6 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
 - 1.7 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
 - 1.8 Hazards are identified, workplace safety and environmental risks are assessed, and control measures are prioritised, implemented and monitored in accordance with workplace procedures
- 2 **Inspect and fill by weight 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 Work is completed within agreed timeframe and to industry standards in accordance with job requirements and workplace procedures
 - 2.4 Cylinders are inspected in accordance with job instructions, industry standards, regulations and workplace procedures
 - 2.5 Cylinders with defects, including leaks and damage, are identified, marked and quarantined and hazards and

- workplace safety risks are reported to authorised person/s for directions in accordance with workplace procedures
- 2.5** Filling of gas cylinders is carried out in accordance with job instructions, industry standards, regulations and workplace procedures
- 2.6** Problems associated with the filling of gas cylinders are dealt with by using problem-solving techniques in accordance with workplace procedures, industry standards and regulations
- 2.8** Unplanned events and non-routine problems are identified and actioned in accordance with workplace procedures
- 3 Complete work and relevant documentation**
- 3.1** Appropriate manual handling techniques are applied when moving full cylinders to designated storage areas or onto vehicles
- 3.2** Workplace safety risk control measures for work completion are followed
- 3.3** Quality and safety checks of the work are conducted in accordance with job requirements, workplace procedures and community and industry standards
- 3.4** Worksite is cleaned, reinstated and made safe in accordance with workplace procedures
- 3.5** Tools, equipment and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures
- 3.6** Incidents are reported and followed up as required in accordance with workplace procedures
- 3.7** Relevant person/s is notified of work completion in accordance with workplace procedures
- 3.8** 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 UEGNSG615 Fill industrial 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 UEGNSG017 Fill by weight industrial gas cylinders

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 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:
 - identifying and reporting hazards
 - implementing risk control measures
 - applying safe manual handling techniques
 - selecting and using relevant personal protective equipment (PPE)
 - undertaking hazardous activities in a safe manner
- checking cylinders for leaks and damage
- communicating effectively with relevant person/s
- completing work and relevant documentation
- confirming and following schedule of work and job requirements
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- filling by weight industrial gas cylinders
- following emergency procedures for accidents and incidents
- following manufacturer instructions
- following workplace procedures
- maintaining a clean and safe worksite
- marking and quarantining damaged cylinders
- performing quality and safety checks
- preparing to fill industrial gas cylinders
- conducting inspections in accordance with industry and organisational standards
- 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 filling by weight gas cylinders
- client issues
- environmental and sustainable energy principles and practices
- filling by weight industrial gas cylinders, including:
 - procedures and precautions
 - tools and equipment
 - handling
 - leak testing
 - inspection requirements
- industrial gas cylinders, including:
 - industrial gas, characteristics and properties, including but not limited to propane, butane, propylene, nitrogen, oxygen, carbon dioxide, argon, hydrogen, helium and acetylene
 - types, construction, size, valves and labelling
 - safety data sheets (SDS)
- problem-solving techniques
- PPE, including:
 - types, application, checking, maintenance and storage
- quality and safety checks
- relevant manufacturer specifications
- relevant materials, tools, equipment and devices
- relevant safe work method statements (SWMS)/job safety analysis (JSA) or risk mitigation processes
- relevant industry standards, legislation, guidelines, codes of practice and regulations
- relevant workplace documentation
- relevant workplace policies and procedures
- 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
- reporting requirements
- resources and materials required for the work
- site preparation, work schedules, safety plans and job requirements
- storage requirements of dangerous goods
- workplace quality 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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