



Australian Government

UEGNSG020 Load, unload, exchange and connect industrial gas cylinders

Release: 1

UEGNSG020 Load, unload, exchange and connect 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 load, unload, exchange and connect industrial gas cylinders to an approved installation in accordance with relevant legislation, codes of practice, regulations and workplace procedures.

It includes following procedures to correctly and safely carry out the work using appropriate materials, tools and equipment.

This unit applies to worksites where the distribution of industrial gas cylinders occurs, including cylinder delivery drivers and service/installation gas fitters who exchange industrial gas cylinders connected to an approved gas installation.

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 load/unload truck, exchange and

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

connect industrial gas cylinders	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 loading, applying cylinder load restraint, unloading and exchanging of gas cylinders are made to others involved in the work as required 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 Materials, plans, diagrams, drawings and resources required for work are confirmed and obtained in accordance with workplace procedures
2 Load/unload truck, exchange and connect 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 Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures
 - 2.5 Truck is correctly positioned for the loading, unloading and exchanging of gas cylinders to ensure completion in agreed timeframes with a minimum of waste and to industry standards
 - 2.6 Loading, applying cylinder load restraint, transporting, unloading, exchanging and connecting of gas cylinders is conducted in accordance with job instructions and workplace procedures
 - 2.7 Gas connection between cylinder and gas installation is leak tested to ensure gas tightness
 - 2.8 Faults and operational conditions of the components are identified, repaired or replaced, and reported in accordance with organisational job requirements
 - 2.9 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 Delivery documentation and 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 UEGNSG614 Load, unload, exchange and connect LPG 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 UEGNSG020 Load, unload, exchange and connect 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 relevant industry standards, guidelines, codes of practice and regulations
- applying relevant workplace safety requirements, including:
 - working safely with hazardous materials and equipment
 - identifying and reporting hazards
 - implementing risk control measures
 - selecting and using correct personal protective equipment (PPE)
 - following emergency procedures and response actions
- applying sustainable energy and environmental principles and practices
- communicating with relevant person/s
- completing work and relevant documentation
- conducting quality and safety checks
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- exchanging and connecting industrial gas cylinders
- following workplace procedures
- loading and unloading cylinders and applying cylinder load restraint
- obtaining and using relevant equipment and tools, including:
 - cylinder trolleys
 - hoses and fittings
 - hand tools
 - leak detection fluid
 - truck tail gate loader
 - tray gates and ropes
- positioning truck correctly
- preparing to load/unload truck, exchange and connect industrial gas cylinders.

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:

- hazardous activities, including lifting, climbing, working in confined spaces and aloft, and use of power tools
- fault-finding and troubleshooting techniques
- leak detection methods
- industrial gas cylinders, including:
 - cylinder installation requirements
 - 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, labelling and safety data sheets (SDS)
 - handling, loading, unloading and exchanging
 - disconnecting and connecting
 - out of gas procedures
- industrial gas cylinder transport requirements, including:
 - cylinder load restraint
 - transport of dangerous goods placard loads
 - dangerous goods routes
 - dangerous goods transport documentation
- quality and safety checks
- relevant legislation, regulations, codes of practice, industry standards and policies, including dangerous goods codes
- relevant safe work method statements (SWMS)/job safety analysis (JSA) or risk mitigation processes
- relevant workplace documentation, forms, records and reports
- 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
- types of accidents and emergencies, including fire and gas leak
- workplace quality requirements and specifications.

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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