



Australian Government

UEGNSG615A Fill LPG cylinders

Release 1

UEGNSG615A Fill LPG cylinders

Modification History

This unit replaces UEGNSG604B Fill gas cylinders

Unit Descriptor

Unit Descriptor

1) Scope:

1.1) Descriptor

This unit covers inspecting and filling liquefied petroleum gas (LPG) cylinders in accordance with relevant legislation, codes, regulations and established procedures.

This encompasses following procedures to correctly and safely carry out the work using appropriate materials, tools and equipment. This work includes the inspection of the cylinder for correct date on cylinder, company's ownership, corrosion and impact damage, leaks, component and part damage.

Application of the Unit

Application of the Unit 2)

This competency standard shall apply to work sites where the distribution of liquefied petroleum gas (LPG) occurs subject to all Workplace Health and Safety (WHS)

/Occupational Health and Safety (OHS) and duty of care requirements being met for the workplace.

This unit is intended as an entry level AQF 2 competency for new entrants in the gas industry. It is suitable for employment-based programs under an approved contract of training.

Licensing/Regulatory Information

License to practice 3)

During Training:

Competency development activities are subject to regulations directly related to licensing, occupational health and safety and where applicable contracts of training such as apprenticeships.

In the workplace:

The skills and knowledge described in this unit are not subject to licence regulation other than those directly related to Workplace Health and Safety (WHS)/ Occupational Health and Safety (OHS), gas/electricity/water industry safety and compliance, industrial relations, environmental protection, telecommunications, anti-discrimination and training.

Commonwealth, State/Territory or Local Government legislation and regulations may exist that limits the age of operating certain equipment. Other conditions may apply to this competency under State and Territory legislative and regulatory requirements.

Pre-Requisites

Prerequisite Unit(s) 4)

Competencies 4.1)

Granting of competency in this unit shall be made only after competency in the following unit(s) has/have been confirmed:

UEGNSG141A Apply Workplace Health and Safety regulations, codes and practices in the gas industry

Prerequisite Unit(s) 4)

UEGNSG005A Prepare to work in the Australian gas industry

Employability Skills Information**Employability Skills 5)**

This unit contains Employability Skills

The required outcomes described in this unit of competency contain applicable facets of Employability Skills. The Employability Skills Summary of the qualification in which this unit of competency is packaged will assist in identifying Employability Skill requirements.

Elements and Performance Criteria Pre-Content

6) Elements describe the essential outcomes of a competency standard unit *Performance Criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the Evidence Guide.*

Elements and Performance Criteria**ELEMENT****PERFORMANCE CRITERIA**

1 Prepare to fill LPG cylinders	1.1	Work instructions are received and confirmed
	1.2	Relevant requirements and established procedures to be followed for the work to be performed are discussed with all persons to establish and confirm the work schedule
	1.3	WHS/OHS, environmental and sustainable energy policies and procedures to be followed for the work to be performed are received and

ELEMENT	PERFORMANCE CRITERIA
	confirmed
	1.4 Suggestions to assist with the filling of gas cylinders are made to others involved in the work
	1.5 Hazards are identified, WHS/OHS risks assessed and control measures are prioritised, implemented and monitored including emergency exits kept clear according to established procedures
	1.6 Scope of responsibility under the relevant work permit are received and confirmed according to requirements and established procedures with relevant persons
	1.7 Resources including equipment, tools and personal protective equipment required for the job are obtained and in working order according to established procedures
	1.8 Relevant responsibilities associated with First Aid and other related work safety procedures at the worksite are confirmed in accordance with requirements and established procedures to ensure safety measures and followed in the instance of an incident.
	1.9 Client issues are referred to appropriate persons in accordance with industry and community standards
	1.10 Site is prepared according to given instructions and the work schedule for a quality outcome and to minimise risk and damage to property, commerce and individuals in accordance with established procedures
2 Fill LPG cylinders	2.1 WHS/OHS policies and procedures and safe work practices are followed to eliminate or minimise incidents and hazards
	2.2 Lifting, climbing, working in confined spaces or aloft, and use of power tools, techniques and practices are safely followed in accordance with given instructions and according to requirements

ELEMENT**PERFORMANCE CRITERIA**

- confirmed to eliminate the prospects of incidents
- 2.3 Operational knowledge for the filling of gas cylinders is confirmed to ensure completion in an agreed timeframe and to quality standards with a minimum of waste according to requirements and established procedures
- 2.4 The filling of gas cylinders is carried out in accordance with given instructions and established procedures
- 2.5 Cylinders with defects such as leaks, damage etc. are identified, marked and quarantined and identified hazards and WHS/OHS risks are reported to the immediate authorised persons for directions according to established procedures
- 2.6 Non-routine events are referred to the immediate authorised persons for directions according to established procedures
- 2.7 Problems associated with the filling of gas cylinders are dealt with using acquired known solutions and skills related to routine procedures to ensure work instructions and established procedures are met
- 2.8 Ongoing checks of quality of the work are undertaken in accordance with given instructions and established procedures
- 3 Complete work and relevant documentation**
- 3.1 Cylinders are lifted and moved according to standard operating procedures against the work schedule and anomalies reported to authorised persons
- 3.2 Accidents and incidents are actioned and reported to authorised persons in accordance with established procedures
- 3.3 Work site is rehabilitated, cleaned up and made safe in accordance with given instructions and established procedures
- 3.4 Tools, equipment and any surplus resources and materials are, where appropriate, cleaned, checked and returned to storage in accordance

ELEMENT**PERFORMANCE CRITERIA**

with established procedures

- 3.5 Appropriate persons are notified of work completion according to established procedures
- 3.6 Work completion records, report forms and data sheets are completed accurately in accordance with given instructions and established procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

7) *This describes the skills and knowledge and their level, required for this unit.*

Evidence shall show that knowledge has been acquired of safe working practices for the filling of LPG cylinders.

All knowledge and skills detailed in this unit should be contextualised to current industry practices and technologies. The extent of the required skills and knowledge is provided below. It forms an integral part of this unit.

KS01-G615A LPG cylinder filling

Evidence shall show an understanding of inspecting and filling of liquefied petroleum gas (LPG) cylinders in accordance with relevant legislation, codes, regulations and established procedures to an extent indicated by the following aspects:

T1. Relevant Australian Standards, guidelines and codes of practice including AS1596 and AS2030 or replacements

T2. Relevant OHS policies and procedures.

- Safety signs including workplace hazards and warnings

T3. LPG cylinders

- Properties of LP Gas
- Types, construction, size, valves, labelling, Material Safety Data Sheets (MSDS)
- Inspection requirements
 - correct date on cylinder,; company's ownership,; corrosion and impact damage,; leaks,; component and part damage
- Filling
 - requirements, methods, tools/equipment, procedures, precautions
- Handling
- Leak testing

T4. Personal Protection Equipment

- Types, application, checking, maintenance and storage

T5. Hazard identification, risk assessment and control

- Work Permits, JHA's, JSA's, JSEA's, SWM's, etc.
- Use of spill kits and PPE

T6. Manual handling

- Characteristics, types, techniques

T7. Accidents and emergency

- Types: fire, gas leak

REQUIRED SKILLS AND KNOWLEDGE

- Emergency equipment and procedures
 - breathing apparatus
 - gas detectors/oxygen monitoring devices
- Reporting

T8. Organisation's policies, quality requirements, specifications, forms and reports for work activity

Evidence Guide

EVIDENCE GUIDE

8) The Evidence Guide forms an integral part of this Competency Standard Unit and shall be used in conjunction with all components parts of this unit and performed in accordance with the Assessment Guidelines of this Training Package.

Overview of Assessment 8.1)

Longitudinal competency development approaches to assessment, such as Profiling, require data to be reliably gathered in a form that can be consistently interpreted over time. This approach is best utilised in Apprenticeship programs and reduces assessment intervention. It is the Industry's preferred model for apprenticeships. However, where summative (or final) assessment is used it is to include the application of the competency in the normal work environment or, at a minimum, the application of the competency in a realistically simulated work environment. It is recognised that, in some circumstances, assessment in part or full can occur outside the workplace. However, it must be in accord with Industry and Regulatory policy in this regard.

Methods chosen for a particular assessment will be influenced by various factors. These include the extent of the assessment, the most effective locations for the assessment activities to take place, access to physical resources, additional safety measures that may be required and the critical nature of the competencies being assessed.

The critical safety nature of working with electricity, electrical equipment, gas or any other hazardous substance/material carries

risk in deeming a person competent. Hence, sources of evidence need to be 'rich' in nature so as to minimise error in judgment.

Activities associated with normal every day work have a bearing on the decision as to how much and how detailed the data gathered will contribute to its 'richness'. Some skills are more critical to safety and operational requirements while the same skills may be more or less frequently practiced. These points are raised for the assessors to consider when choosing an assessment method and developing assessment instruments. Sample assessment instruments are included for Assessors in the Assessment Guidelines of this Training Package.

**Critical aspects 8.2)
of evidence
required to
demonstrate
competency in
this unit**

Before the critical aspects of evidence are considered all prerequisites shall be met.

- Evidence for competence in this unit shall be considered holistically. Each element and associated Performance Criteria shall be demonstrated on at least two occasions in accordance with the ‘Assessment Guidelines — UEG11’. Evidence shall also comprise:
 - A representative body of work performance demonstrated within the timeframes typically expected of the discipline, work function and industrial environment. In particular this shall incorporate evidence that shows a candidate is able to:
 - Implement Occupational Health and Safety workplace procedures and practices including the use of risk control measures as specified in the Performance Criteria and range
 - Apply sustainable energy principles and practices as specified in the Performance Criteria and range
 - Demonstrate an understanding of the required skills and knowledge as described in this unit to such an extent that the learner’s performance outcome is reported in accordance with the preferred approach; namely a percentile graded result, where required by the regulated environment
 - Demonstrate an appropriate level of employability skills
 - Conduct work observing the relevant Anti-discrimination legislation, regulations, policies and workplace procedures
- Demonstrate performance across a representative range of contexts from the prescribed items below.
 - Inspecting and filling of liquefied petroleum gas (LPG) cylinders in accordance with relevant legislation, codes, regulations and established procedures as described in 9.) Range Statement and including:

Range of tools/equipment/procedures/work place		
Group	The minimum number of items on which skill is to be demonstrated	Item List
A. Tools/equipmen	At least 5	<ul style="list-style-type: none"> • LPG cylinders • Cylinder trolleys • Hose and fittings

t		<ul style="list-style-type: none"> • Leak detection devices • Valves • Gauges • Spindles • Scales • Decanting equipment • Dispensing pumps • Hand tools
B. Procedures	All	<ul style="list-style-type: none"> • WHS/OHS • Job safety analysis • Manual handling • Cylinder inspection • Cylinder filling • Checking for leaks • Emergency procedures and response action
C. Unplanned event	At least one occasion	Deal with an unplanned event by drawing on required skills and knowledge to provide appropriate solutions incorporated in the holistic assessment with the above listed items

Context of and specific resources for assessment 8.3)

This unit should be assessed as it relates to normal work practice using procedures, information and resources typical of a workplace. This should include:

- OHS policy and work procedures and instructions.
- Suitable work environment, facilities, equipment and materials to undertake actual work as prescribed by this Competency Standard Unit.
- Appropriate environmental regulation and work practices.
- Appropriate organisational requirements.
- Appropriate work environment, equipment and tools.
- These should be part of the formal learning/assessment environment.
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Assessment of this competency must also be undertaken in either an actual workplace or under a simulated work environment.

Note:

Where simulation is considered a suitable strategy for assessment, conditions must be authentic and as far as possible reproduce and replicate the workplace and be consistent with the approved industry simulation policy.

The resources used for assessment should reflect current industry practices in relation to locating, proving and protecting utility assets.

Method of assessment

8.4)

This Competency Standard Unit shall be assessed by methods given in Volume 1, Part 3 'Assessment Guidelines'.

Note: Competent performance with inherent safe working practices is expected in the Industry to which this Competency Standard Unit applies. This requires that the specified required Skills and Knowledge are assessed in a structured environment which is primarily intended for learning/assessment and incorporates all necessary equipment and facilities for learners to develop and demonstrate the required skills and knowledge described in this unit.

**Concurrent
assessment and
relationship
with other units** **8.5)**

There are no recommended concurrent assessments with this unit, however in some cases efficiencies may be gained in terms of learning and assessment effort being concurrently managed with allied Competency Standard Units where listed.

- | | |
|------------|---|
| UEGNSG132A | Carry out basic work activities in a gas industry work environment |
| UEGNSG141A | Apply Workplace Health and Safety regulations codes and practices in the gas industry |
| UEGNSG140A | Apply environmental policies and procedures in the utilities industry |
| UEGNSG134A | Establish a utilities infrastructure work site |

Range Statement

RANGE STATEMENT

9) This relates to the competency standard unit as a whole providing the range of contexts and conditions to which the Performance Criteria apply. It allows for different work environments and situations that will affect performance.

This Competency Standard Unit shall be demonstrated in relation to inspecting and filling LPG cylinders by weight using scales or by decanting or by dispenser pump at an LPG terminal or a cylinder filling installation compliant to the requirements of AS1596.

The following constants and variables included in the element/Performance Criteria in this unit are fully described in the Definitions Section of this volume and form an integral part of the Range Statement of this unit:

- Appropriate Persons
- Equipment
- Inspection Checks
- Legislative Requirements

Unit Sector(s)

Not applicable.

Competency Field

Competency Field 11)
LPG.