



Australian Government

**UEGNSG619 Perform scheduled
maintenance on gas processing or storage
facilities and equipment**

Release: 1

UEGNSG619 Perform scheduled maintenance on gas processing or storage facilities and equipment

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 carry out scheduled maintenance, and repair and replace parts on liquefied petroleum gas (LPG) processing or storage facilities and equipment.

It includes repairing/replacing pressure vessels, valves and fittings, transfer equipment, pumps, compressors, transfer hoses, pipework and seals.

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

This unit applies to work sites where LPG is processed and stored, and subject to all work health and safety (WHS)/occupational health and safety (OHS) and duty of care requirements being met for the workplace.

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.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1 Prepare for maintenance and repair activities**
- 1.1** Appropriate facilities, tools, testing and measuring instruments, drawings, plans, materials and components for the work are selected in accordance with the work schedule/s and workplace procedures
 - 1.2** Job requirements and workplace procedures for the work are obtained for all work sites/facilities and communicated to relevant person/s
 - 1.3** WHS/OHS, environmental and sustainable energy policies and procedures related to performing minor maintenance on LPG processing and storage facilities and equipment are obtained and applied
 - 1.4** Work is prioritised and sequenced for completion within acceptable timeframes following consultation with others in accordance with workplace procedures
 - 1.5** Hazards and WHS/OHS risks are identified and prioritised and control measures implemented and monitored against the work schedule
 - 1.6** Relevant work permits are obtained to access and perform the work and facilities and equipment is isolated, depressurised, purged, tagged and locked out before repair/maintenance work is undertaken
 - 1.7** Appropriate equipment, tools and personal protective equipment (PPE) required for the job are identified, scheduled, obtained and confirmed in working order
 - 1.8** Responsibilities for first aid and other emergency incidents at the work site are confirmed with relevant person/s in accordance with workplace procedures
 - 1.9** Communication with authorised person/s, authorities, clients and land owners is conducted, as required, and work coordinated in accordance with the work schedule
 - 1.10** Site is prepared to minimise risk and damage to property, commerce and individuals in accordance with the work schedule and workplace procedures
 - 1.11** Persons participating in the work, including plant operators and contractors, are briefed and responsibilities confirmed in accordance with workplace procedures
 - 1.12** Fault-finding and troubleshooting techniques are applied

to operational systems to identify any repairs or maintenance required in accordance with job requirements and workplace procedures

- 1.13** Road signs, barriers and warning devices are positioned in accordance with job requirements and traffic management plan
- 2 Perform scheduled maintenance and repairs**
- 2.1** WHS/OHS policies and procedures and safe work practices are followed to eliminate or minimise incidents and hazards
- 2.2** Hazardous activities are performed safely and currency maintained, as required, in accordance with regulatory requirements and workplace procedures
- 2.3** Maintenance and repairs on LPG processing/storage facilities and equipment are coordinated to ensure completion in agreed timeframe, to industry standards and with a minimum of waste in accordance with job requirements
- 2.4** Adjustments to calibration and test equipment/devices are made in accordance with manufacturer instructions to ensure equipment/devices operate within specific ranges and to maintain correct flow parameters
- 2.5** Hazard warnings and safety signs are recognised and WHS/OHS risks assessed and reported to the authorised person/s for directions in accordance with workplace procedures
- 2.6** Unplanned events encountered when performing maintenance on LPG processing/storage facilities and equipment are identified and actioned in accordance with workplace procedures
- 2.7** Maintenance is performed and parts repaired or replaced by applying problem-solving techniques in accordance with workplace procedures and job requirements
- 2.8** Quality and safety checks of the maintenance work are conducted in accordance with job instructions, industry standards and workplace procedures
- 3 Complete scheduled maintenance and relevant documentation**
- 3.1** Maintenance results are documented and work undertaken is checked against work schedule/s for conformance and anomalies reported in accordance with workplace procedures

- 3.2 Accidents and injuries are reported in accordance with requirements and workplace procedures
- 3.3 Work site is rehabilitated, cleaned up and made safe in accordance with job instructions and workplace procedures
- 3.4 Tools, equipment and any surplus resources and materials are cleaned, checked and returned to storage in accordance with workplace procedures
- 3.5 Relevant work permit/s are signed off and equipment is returned to service in accordance with job and regulatory requirements
- 3.6 Work completion records, reports and documentation are completed, processed and appropriate person/s notified 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.

equipment must include at least seven (7) of the following:

- pressure vessel
- vapourisers
- earth connections
- relief valves
- system(s) isolation
- emergency shutdown valving, including – idle speed control (ISC) valves
- manual shutdown valving
- pipe work
- vessel footings
- regulators
- hoses and couplings
- pumps
- compressors

identifying irregularities must include at least three (3) of the following:

- incorrect flow rates
- corrosion
- impact damage
- point deterioration
- leakage
- non-operability of shutdown systems
- equipment out of calibration
- excess flow valves
- relief valves
- pressure regulators/springs
- pump seals/compressor seals
- pressure gauges
- bypass valves
- meters
- solenoids
- valves
- break away couplings
- meter heads
- transfer hoses

scheduled maintenance, repairs and replacement of parts must include at least six (6) of the following:

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG619A Perform scheduled maintenance on gas processing or storage facilities and equipment.

Links

Companion Volume Implementation Guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6a6c032e-ffcb-4f3d-8063-415efbd261e8>