



Australian Government

UEGNSG063 Operate and maintain gas station water bath heaters

Release: 1

UEGNSG063 Operate and maintain gas station water bath heaters

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 operate and maintain gas station water bath heaters and associated equipment in accordance with relevant legislation, codes of practice, industry standards and regulations.

It includes operating and maintaining both gas fired and electric water bath heaters in trunk receiving stations (TRS) and pressure reduction stations.

This unit applies to the following the types of gas facilities, subject to workplace safety and duty of care requirements being met for the workplace:

- TRS
- pressure reduction station.

This unit is intended for non-electrical workers and electrical work is undertaken by a person with an unrestricted or restricted electrical licence.

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

Pre-requisite Unit

Not applicable.

Competency Field

Gas Cross Discipline

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Prepare to operate and maintain gas station water bath heaters

- 1.1** Workplace safety and environmental control measures for the site are identified, obtained and applied
- 1.2** Job requirements are interpreted from plans, specifications and instructions
- 1.3** Relevant job requirements and workplace procedures for work activities are discussed with relevant person/s to determine and confirm work schedule and respective responsibilities
- 1.4** Workplace safety, environmental and sustainable energy policies and procedures are obtained and applied in accordance with workplace procedures
- 1.5** Workplace safety risks are assessed and prioritised, and control measures implemented and monitored in accordance with workplace procedures
- 1.6** Scope of responsibility under the relevant work permits and/or relevant notification is determined and confirmed to access, isolate/de-energise systems and perform work in accordance with job requirements and workplace procedures
- 1.7** Equipment, tools and personal protective equipment (PPE) required for the work are identified, scheduled, obtained and checked for correct operation and safety in accordance with workplace procedures and manufacturer instructions
- 1.8** Relevant person/s is consulted to ensure work activity is coordinated effectively with person/s involved
- 1.9** Materials, manuals, plans, diagrams, drawings and resources required for work are confirmed, scheduled and obtained in accordance with workplace procedures
- 1.10** Third-party issues are referred to relevant person/s in accordance with workplace procedures
- 1.11** Site preparation, safety plan, first aid and related workplace safety procedures and work schedule are confirmed in accordance with workplace procedures

2 Operate and maintain gas

- 2.1** Workplace safety risk control measures and environmental policies and procedures are followed in

station water bath heater	accordance with workplace procedures
2.2	Appropriate materials, tools, equipment and measuring devices are selected and used safely in accordance with manufacturer instructions and workplace procedures
2.3	Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures
2.4	Work is coordinated to ensure completion in agreed timeframe and to industry standards with a minimum of waste in accordance with job requirements and workplace procedures
2.5	Alarms, codes and hazard warnings are correctly recognised, and the correct response strategy is selected and applied in accordance with workplace procedures
2.6	Information on gas temperature, water levels and utility supply gas is collected, analysed and reported in accordance with workplace procedures
2.7	Maintenance of components is conducted in accordance with work schedule and workplace procedures
2.8	Water bath heater components are maintained and operated in accordance with workplace procedures
2.9	Faults and operational conditions of the components are identified, repaired or replaced, and reported in accordance with organisational job requirements
2.10	Unplanned events and non-routine problems are identified and actioned in accordance with workplace procedures
2.11	Quality and safety checks of the work are conducted in accordance with job requirements, workplace procedures and community and industry standards
3 Complete work and relevant documentation	
3.1	Workplace safety risk control measures and workplace procedures for work completion are followed
3.2	Worksite is cleaned/tidied and made safe in accordance with workplace procedures
3.3	Tools, equipment and any surplus resources and materials are cleaned and securely stored in accordance with workplace and environmental procedures

- 3.4 Incidents and injuries 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 and provided to appropriate 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 replaces and is equivalent to UEGNSG137 Operate and maintain gas station water bath heaters.

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 UEGNSG063 Operate and maintain gas station water bath heaters

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 problem-solving techniques
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant workplace safety requirements, including:
 - following emergency response procedures
 - maintaining a safe and clean workplace
 - working safely with hazardous materials and equipment
 - identifying and reporting hazards
 - implementing risk control measures
- collecting, analysing and reporting on utility supply gas and temperature control systems
- completing required documentation and reporting
- 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
- fault-finding and troubleshooting water bath heater faults
- obtaining and interpreting relevant technical drawings, diagrams, schedules and manuals
- obtaining relevant work permits
- operating and maintaining gas station water bath heaters and components
- operating, adjusting/testing and fault-finding water bath heaters and components
- repairing and replacing water bath components
- selecting correct materials, equipment, tools, personal protection equipment (PPE) and measurement devices.

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:

- fault-finding and troubleshooting techniques to identify water bath heater faults
- gas fired and electric water bath heaters, including:

- operation
- components
- skid layouts
- hazardous activities, including:
 - lifting, climbing, working in confined spaces and aloft, and use of power tools
- isolate and de-energise systems
- manufacturer specifications, manuals and procedures
- operating modes, including:
 - dual heater skid operation
 - automatic
 - manual
 - set point control
- relevant equipment, tools and measurement devices
- relevant industry standards, guidelines, codes of practice, legislation and regulations
- relevant safe work method statements (SWMS)/job safety analysis (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
 - manufacturer requirements
- relevant work permits
- relevant workplace policies and procedures
- reporting and documentation requirements
- routine inspection requirements
- technical plans, diagrams and drawings
- temperature control systems
- water bath heater maintenance and operation
- water levels and utility supply.

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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