



Australian Government

UEGNSG225 Perform routine maintenance on distribution pipeline facilities and equipment

Release: 1

UEGNSG225 Perform routine maintenance on distribution pipeline 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 perform routine maintenance on distribution pipeline facilities and equipment, complete work and relevant documentation.

It includes using equipment, tools and testing devices, performing routine maintenance and identifying faults.

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

Pre-requisite Unit

Not applicable.

Competency Field

Gas Distribution

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare for routine maintenance on distribution pipeline facilities and equipment

PERFORMANCE CRITERIA

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

- 1.1** Work schedule/s, drawings, plans, job requirements and material lists are obtained and analysed in accordance with workplace procedures
- 1.2** Job requirements and workplace procedures are

identified for all work sites and communicated to relevant person/s

- 1.3** Work health and safety (WHS)/occupational health and safety (OHS) workplace procedures, environmental and sustainable energy policies and procedures for the work; facilities and equipment are identified, obtained and communicated to relevant person/s in accordance with workplace procedures
- 1.4** Work is prioritised and sequenced for completion within acceptable timeframes following consultation with relevant person/s in accordance with workplace procedures
- 1.5** Hazards are identified, WHS/OHS risks are assessed and control measures prioritised, implemented and monitored in accordance with workplace procedures
- 1.6** Facilities/equipment are safely isolated, depressurised, tagged and locked out and relevant permit/s to access and perform work are obtained in accordance with regulatory requirements and workplace procedures
- 1.7** Person/s, equipment, tools and personal protective equipment (PPE) required for the job are identified, scheduled, obtained and checked for correct operation and safety
- 1.8** Relevant person/s at worksite are confirmed to be current in first aid and other related work procedures, such as licensed to operate equipment in accordance with requirements
- 1.9** Communication with authorised persons, authorities, clients and land owners is conducted and work coordinated in accordance with work schedule and workplace procedure
- 1.10** Site is prepared to minimise risk and damage to property, commerce and individuals in accordance with work schedule and workplace procedures
- 1.11** Person/s participating in the work are briefed and responsibilities coordinated and confirmed in accordance with workplace procedures
- 1.12** Road signs, barriers and warning devices are positioned in accordance with job requirements, workplace

- procedures and traffic management plan
- 2 Perform routine maintenance on distribution pipeline facilities and equipment**
- 2.1** WHS/OHS risk control measures and environmental policies and procedures are followed in accordance with workplace procedures
 - 2.2** Relevant materials, tools, equipment and measuring devices required for the maintenance are selected and used correctly and safely in accordance with manufacturer instructions and workplace procedures
 - 2.3** Hazardous activities are conducted safely in accordance with job requirements and workplace procedures
 - 2.4** Routine maintenance of distribution facilities and equipment is carried out in accordance with work schedule and workplace procedures
 - 2.5** Hazard warnings and safety signs are recognised and hazards and WHS/OHS risks assessed and reported to authorised person/s for directions in accordance with workplace procedures
 - 2.6** Unplanned events and non-routine problems are identified and actioned in accordance with workplace procedures
 - 2.7** Fault-finding and troubleshooting techniques are applied to identify any routine maintenance required in accordance with job requirements and workplace procedures
 - 2.8** Quality checks are undertaken in accordance with job instructions and workplace procedures
- 3 Complete work and relevant documentation**
- 3.1** Work undertaken is checked against work schedule for conformance and anomalies reported to relevant person/s in accordance with workplace procedures
 - 3.2** Accidents and injuries are reported, as required, in accordance workplace procedures
 - 3.3** Work site is rehabilitated, cleaned up and made safe in accordance with 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 facilities/equipment returned to service in accordance with job requirements and workplace procedures
- 3.6** Work completion records, documentation, reports as installed/modified drawings, 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.

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| piping access procedures must include at least three (3) of the following: | <ul style="list-style-type: none">• excavation• trenching• shoring• stitch bore• horizontal drilling• directional drilling• piping materials |
| piping materials must include at least two (2) of the following: | <ul style="list-style-type: none">• nylon (polyamide) pipeline laying, joining and stop off techniques• unplasticised (uPVC) pipeline laying, joining and stop off techniques• polyethylene (PE) pipeline laying, joining and stop off techniques• steel pipeline laying, joining and stop off techniques |
| isolation procedures must include at least two (2) of the following | <ul style="list-style-type: none">• high pressure stop off• bagtube• squash off jacks• squash off pliers |
| competency must be demonstrated in relation to performing routine maintenance on distribution pipeline facilities and equipment | <ul style="list-style-type: none">• valves, actuators and flanges• heaters and heat exchanger• metering equipment |

must include:

- process control equipment
- gas analysis equipment
- piping systems
- sumps and drains
- pressure vessels/filtration equipment
- pumping systems and equipment
- compression systems and equipment

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG225A Perform routine maintenance on distribution pipeline 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>

Assessment Requirements for UEGNSG225 Perform routine maintenance on distribution pipeline facilities and equipment

Modification History

Release 1. This is the first release of this unit of competency in the UEG Gas Industry Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and include:

- applying problem-solving techniques
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - working safely with hazardous materials and equipment
 - hazard identification and reporting
 - implementing risk control measures
 - selecting and using correct personal protective equipment (PPE)
- applying sustainable energy and environmental principles and practices
- communicating with authorities and stakeholders
- completing work and relevant documentation
- conducting quality checks
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following work schedule, safety plan and job requirements
- following workplace procedures
- interpreting technical drawings, plans and materials lists
- isolating, depressurising, tagging and locking out facilities/equipment
- obtaining relevant resources, tools, equipment and materials to conduct the work
- obtaining relevant work permits
- performing routine maintenance on distribution pipeline facilities and equipment
- positioning road signs, barriers and warning devices
- preparing and planning for routine maintenance on distribution pipeline facilities and equipment
- rehabilitating and maintaining a clean work site
- reporting anomalies.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- communication and recording/reporting documentation requirements and procedures
- de-isolation all sources of energy, removal of tags and locks and return to normal operation requirements and procedures
- faults managed during routine maintenance
- hazardous activities, including:
 - lifting, climbing, working in confined spaces and aloft, and use of power tools
- isolation, depressurisation, tagging and lockout of pipeline facilities and equipment requirements and procedures, including:
 - valves, flanges, fittings, markers and signs
- maintenance activities requirements and procedures
- manufacturer specifications, manuals, part lists, calibration forms and checklists
- pipeline laying, joining and stop off techniques
- quality checks
- relevant industry standards, guidelines, codes of practice and regulations
- relevant tools, equipment and instruments
- relevant work permits
- relevant workplace documentation
- relevant workplace policies and procedures
- relevant WHS/OHS legislated requirements, including:
 - hazards, risk assessment and control measures
 - environmental and sustainable energy principles and practices
 - hazard warnings and safety signs
 - hazardous materials
 - PPE
 - relevant industry standards, guidelines, codes of practice and regulations
- site preparation, safety plans, job requirements and work schedules
- traffic management plans
- types of pipeline, facilities and equipment to be inspected and tested.

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.

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