



Australian Government

UEGNSG347 Perform routine maintenance on transmission pipeline facilities and equipment

Release: 1

UEGNSG347 Perform routine maintenance on transmission 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 transmission pipeline facilities and equipment, and 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 Transmission

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare for routine maintenance on transmission pipeline facilities and equipment

PERFORMANCE CRITERIA

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

- 1.1** Work schedule, drawings, plans, job requirements and material lists are obtained and analysed in accordance with workplace procedures
- 1.2** Relevant technical, work health and safety

(WHS)/occupational health and safety (OHS), environmental and workplace procedures for the work are obtained for all work sites and communicated to relevant person/s

- 1.3 Work is prioritised and sequenced for completion within acceptable timeframes following consultation with relevant stakeholders in accordance with workplace procedures
- 1.4 Hazards are identified, WHS/OHS risks are assessed and control measures prioritised, implemented and monitored in accordance with workplace procedures
- 1.5 Facilities/equipment are safely isolated, depressurised, tagged and locked out and relevant permit/s to access and perform work are obtained in accordance with workplace procedures
- 1.6 Resources, including appropriately licensed persons, equipment, tools and personal protective equipment (PPE), required for the job are identified, obtained and checked for correct operation and safety
- 1.7 Communication issues with relevant stakeholders are resolved and work coordinated in accordance with work schedule and workplace procedures
- 1.8 Site is prepared to minimise risk and damage to property, commerce and individuals in accordance with work schedule and workplace procedures
- 1.9 Members of the work party are briefed about permit conditions and responsibilities coordinated and confirmed in accordance with work schedule and workplace procedures
- 1.11 Signs, barriers and warning devices are positioned in accordance with job requirements and workplace procedures

2 Perform routine maintenance on transmission 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 performed safely in accordance with relevant workplace procedures, codes and legislation

2.4 Routine maintenance of transmission pipeline facilities and equipment is performed in agreed timeframe and to quality standard with a minimum of waste in accordance with work schedule and workplace procedures

2.5 Hazard warnings and safety signs are recognised and hazards and WHS/OHS risks are reported to authorised person/s for directions in accordance with workplace procedures

2.6 Unplanned events and non-routine problems are identified and safely resolved 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 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 with 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 is 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.

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG347A Perform routine maintenance on transmission 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 UEGNSG347 Perform routine maintenance on transmission pipeline facilities and equipment

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 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 relevant industry standards, guidelines, codes of practice and regulations
- applying sustainable energy and environmental principles and practices
- communicating effectively with 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
- operating gas detector
- performing routine maintenance on transmission pipeline facilities and equipment
- positioning signs, barriers and warning devices
- preparing and planning for routine maintenance on transmission pipeline facilities and equipment
- rehabilitating and maintaining a clean work site
- reporting anomalies
- restoring all site isolations

- updating drawings/plans.

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:

- appropriately licensed persons
- 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 lock out of pipeline facilities and equipment requirements and procedures, including valves, flanges, fittings, markers and signs
- maintenance activities requirements and procedures
- quality checks
- relevant industry standards, guidelines, codes of practice and regulations
- relevant tools, equipment and instruments
- manufacturer specifications, manuals, part lists, calibration forms and checklists
- relevant industry standards, guidelines, codes of practice and regulations
- 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 work permits
- relevant workplace documentation
- relevant workplace policies and procedures
- 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.

Links

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