



Australian Government

UEGNSG214 Coordinate and conduct gas distribution pipeline repair and modifications

Release: 1

UEGNSG214 Coordinate and conduct gas distribution pipeline repair and modifications

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 prepare, coordinate and conduct gas distribution pipeline repair and modifications.

It includes on-the-job inspecting, testing, identifying, recommissioning the gas distribution pipeline, notifying relevant person/s of work completion, and completing documentation and reports in accordance with relevant industry standards and workplace procedures.

The application of the skills and knowledge described in this unit may require a licence/registration to practise in the workplace.

Other conditions may apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this unit.

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 the coordination of gas

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, analysed and confirmed, as

**distribution pipeline
repairs and modifications**

required, by site inspection and identified repair/modification communicated to relevant person/s in accordance with workplace procedures

- 1.2** Plans, specifications and other relevant information and workplace procedures for the work are obtained for all work sites and communicated to all relevant person/s in accordance with workplace procedures
- 1.3** Work health and safety (WHS)/occupational health and safety (OHS) and environmental workplace policies and procedures related to the work are obtained and applied
- 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 implemented in accordance with workplace procedures
- 1.6** Relevant work permit/s are obtained to access, isolate/de-isolate systems and perform work in accordance with job requirements and workplace procedures
- 1.7** Equipment, tools and personal protective equipment (PPE) required for the job are identified, scheduled, obtained and checked for correct operation and safety in accordance with workplace procedures to minimise harm to equipment and personnel
- 1.8** Relevant person/s and authorities are identified and consulted to ensure the work is coordinated effectively and safely in accordance with WHS/OHS requirements and workplace procedures
- 1.9** Relevant persons at work site are confirmed to be current in first aid and other related requirements in accordance with work procedures
- 1.10** Communication issues with relevant stakeholders are resolved and work coordinated in accordance with work schedule and workplace procedures
- 1.11** Site is prepared to minimise risk and damage to property, commerce and individuals in accordance with the work schedule, workplace procedures and traffic

		management plan
	1.12	Person/s participating in the work are briefed and responsibilities coordinated and confirmed in accordance with job requirements and workplace procedures
	1.13	Road signs, barriers and warning devices are positioned in accordance with job requirements, workplace procedures and traffic management plan
2 Coordinate and conduct gas pipeline repair or modification	2.1	WHS/OHS and environmental risk control measures and policies and workplace procedures are followed
	2.2	Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures
	2.3	Gas distribution pipeline repair and modifications are coordinated to ensure completion in agreed timeframe and to required industry standards with a minimum of waste in accordance with job requirements and workplace procedures
	2.4	Coordination of gas distribution pipeline repair and modifications are carried out in accordance with the work schedule and workplace procedures
	2.5	Hazard warnings and safety signs are recognised, hazards and WHS/OHS risks assessed and reported to authorised persons for directions in accordance with workplace procedures
	2.6	Pipeline repair/modification work is conducted and monitored and unplanned events, amendments and modifications in the pipeline repair are undertaken in accordance with workplace procedures
	2.7	Unplanned situations are responded to in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
	2.8	Pipeline is inspected and tested and quality and safety checks of work undertaken in accordance with industry standards and workplace procedures
3 Recommission gas distribution pipeline to operational conditions and complete relevant	3.1	System is recommissioned to meet distribution pipeline requirements and work undertaken is checked against work schedule for conformance and anomalies reported in accordance with workplace procedures

documentation

- 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 pipeline is returned to service in accordance with job requirements and workplace procedures
- 3.6** Records and drawings are updated to reflect repair, modifications and work completion records and reports as installed and relevant documentation 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 UEGNSG204 Coordinate and conduct gas distribution pipeline repair and modifications.

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 UEGNSG214 Coordinate and conduct gas distribution pipeline repair and modifications

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:

- ability to identify defects and repair methods
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - ensuring emergency response procedures are in place
 - hazard identification and reporting
 - implementing risk control measures
 - selecting and using correct personal protective equipment (PPE)
 - working safely with hazardous materials and equipment
- applying problem-solving techniques
- applying sustainable energy and environmental principles and practices
- choosing and checking the appropriate equipment, plant, tools, measuring devices and PPE for distribution repair and modification work
- communicating schedules to coordinate to person/s
- complying with relevant regulations, industry standards, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- communicating with authorities and relevant stakeholders
- completing work and relevant documentation
- conducting quality and safety checks
- coordinating on-the-job gas distribution pipeline repairs or modifications
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following workplace procedures
- identifying leaks
- inspecting and testing
- interpreting technical drawings, plans and materials lists
- obtaining relevant resources, specifications, plans, tools, equipment and materials
- obtaining relevant work permits

- positioning road signs, barriers and warning devices
- preparing and planning for coordination of repairs and modifications of a gas distribution pipeline
- recommissioning gas distribution pipeline to operational conditions and notifying relevant person/s of completion of work
- updating records and drawings to reflect repairs/modifications.

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:

- communication techniques
- controls for stray, static and induced electrical faults
- different classification of leaks and relevant procedures associated with each class of leak and gas types
- hazard warnings and safety signs
- hazardous activities, including lifting, climbing, working in confined spaces or aloft, and use of power tools
- information relevant to pipeline repair and modification
- maintaining records
- monitoring process of the pipeline system during repair work
- preparation process for testing and inspection of pipeline system
- preparation process of the work site for repairs/modifications work
- problem-solving techniques
- properties and characteristics of different types of fuel gases relevant to pipeline systems to be tested
- recommission system and restore site
- relevant regulations, industry standards, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes
- relevant stakeholders, including authorised persons, authorities, clients and land owners
- relevant technical drawings, plans, material lists or specifications
- relevant testing and inspection methods appropriate to the system under test
- relevant timeframes
- relevant tools and equipment to inspect and test the pipeline system
- relevant workplace documentation
- relevant workplace policies and procedures
- relevant WHS/OHS legislated requirements, including:
 - hazards, risk assessment and control measures and procedures
 - environmental and sustainable energy principles and practices
 - emergency response procedures

- repairs, repair and modifications required, including required equipment, materials, PPE and persons for the work
- road signs, barriers and warning devices
- site inspections
- techniques to record and interpret test data.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

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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