



Australian Government

Assessment Requirements for UEGNSG302 Conduct transmission pipeline emergency repair

Release: 1

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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 and performance criteria on at least two separate occasions and include:

- analysing evidence to determine required repairs
- applying controls for static, stray and induced electrical currents and faults
- applying environmental and sustainable energy principles and practices
- applying problem-solving techniques
- applying relevant legislation, standards, regulations and codes of practice
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - actioning and reporting accidents and incidents
 - ensuring emergency response procedures are in place
 - hazard identification and reporting
 - implementing risk control measures
 - recognising and assessing hazard warnings and safety signs
 - selecting and using correct personal protective equipment (PPE)
 - undertaking hazardous activities in a safe manner
 - working safely with hazardous materials and equipment
- assessing the incident and establishing a safe working site or zone
- communicating effectively with relevant person/s, third parties and stakeholders
- completing work and relevant documentation
- conducting quality and safety checks
- conducting transmission pipeline repairs in accordance with manufacturer, asset owners instructions and approved procedures
- cooperating with and providing input to persons investigating the incident and collecting evidence
- dealing with unplanned events and situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following workplace policies and procedures
- handing over to relevant person/s
- identifying and evaluating threats to the gas pipeline and work site

- identifying leaks
- interpreting technical drawings, plans and materials lists
- obtaining relevant resources, specifications, tools, equipment and materials
- obtaining relevant work permits and authorisations
- participating in debrief
- preparing and planning for repairs of a gas transmission pipeline
- recommissioning gas transmission pipeline to operational conditions and notifying relevant person/s of completion of work
- updating records and drawings to reflect repairs.

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:

- approved pipeline repair methods and techniques, including required equipment, materials, PPE and qualified persons for activities
- communication techniques
- criteria for pressure reduction in consultation with relevant stakeholders
- controls for stray, static and induced electrical currents and faults
- effective communication and liaison techniques with relevant stakeholders, including:
 - emergency response organisations
 - emergency site controller
 - plant operators and contractors
 - property/land owners (including traditional land owners) and tenants
 - regulatory bodies
 - relevant customers and suppliers
 - workplace colleagues, supervisors and managers
- emergency site assessment
- emergency/incident control procedures for applicable enterprise/work site
- environmental and sustainable energy principles and practices
- first aid and other emergency response workplace procedures
- hazard warnings and safety signs
- hazardous activities, including lifting, climbing, working in confined spaces and aloft, and use of power tools
- hazards, risk assessments and control measures
- information relevant to pipeline repair
- maintaining records
- monitoring process of the pipeline system during repair work
- nature of a situation and preliminary assessment
- preparation process for testing and inspection of pipeline system
- preparation process of the work site for repair work
- problem-solving techniques

- process for escalation of emergency levels
- properties and characteristics of gas relevant to the pipeline system to be tested
- recommission system and restore site
- relevant legislation, standards, regulations and codes of practice, including AS 2885 Pipelines - Gas and liquid petroleum
- relevant manufacturer specifications
- relevant permits and notifications required
- relevant resources including people, tools, equipment, systems and PPE
- 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 WHS/OHS legislated requirements, including:
 - environmental and sustainable energy principles and practices
 - hazards, risk assessment and control measures
- relevant workplace documentation, report and records
- site investigation and evidence gathering techniques
- site preparation, work schedules and safety plans
- 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 personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6a6c032e-ffcb-4f3d-8063-415efbd261e8>