



Australian Government

Assessment Requirements for UEGNSG412 Install cathodic protection systems

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, performance criteria and range of conditions on at least two separate occasions and include:

- 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
- analysing cathodic protection survey data
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying sustainable energy and environmental principles and practices
- communicating effectively with others
- completing relevant records, reports and documentation
- dealing with unplanned events
- following work schedule, safety plan and job requirements
- following workplace procedures
- implementing cathodic protection tests
- installing cathodic protection sites and systems
- interpreting cathodic protection data system surveys and readings
- interpreting technical drawings, plan, maps and specifications
- locating and repairing faults
- planning installation of cathodic protection system
- positioning road signs, barriers and warning devices
- rehabilitating and maintaining a clean work site
- reporting anomalies, proposed solutions, incidents and injuries
- selecting and using correct personal protective equipment (PPE)
- testing and commissioning cathodic protection system
- working in accordance with relevant work permit/notifications.

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:

- as built/as installed drawings, technical specifications, drawings, maps and plans
- cathodic protection survey data
- cathodic protection systems installation
- cathodic protection systems operation on a gas industry pipeline
- corrosion process
- corrosion processes on a gas industry pipeline
- effective communication techniques
- fault finding and repair/replacement requirements and procedures
- fault-finding and troubleshooting techniques
- gas system design, planning and operation
- hazardous activities, including lifting, climbing, working in confined spaces and aloft, and use of power tools
- quality and safety checks
- relevant equipment and components
- relevant gas industry documentation
- relevant industry standards, guidelines, codes of practice and regulations
- relevant stakeholders, including authorised persons, authorities, landowners and clients
- 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 and/or notifications
- relevant workplace documentation, records and reports
- relevant workplace policies and procedures
- site preparation, safety plans, job requirements and work schedules
- testing and commissioning requirements and procedures
- traffic management plans.

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

Companion Volume Implementation Guides are found in VETNet -

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