



Australian Government

**Assessment Requirements for UEGNSG505
Operate and monitor gas infrastructure to
meet nominated demand**

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:

- actioning work requests from other parties
- analysing process functions and problems
- applying relevant customer service policies and procedures
- applying relevant procedures for equipment use
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements
- applying sustainable energy and environmental principles and practices
- carrying out work in regular or specified timeframe
- communicating effectively
- conducting plant safety checks
- dealing with unplanned events and situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- locating Control Centres or other places where communication processes occur
- locating, interpreting and applying relevant information, including:
 - alarm listing
 - customer demand and specifications
 - operating limits
 - piping and instrumentation diagram (P&ID)
 - process flow diagrams (PFD)
- maintaining relevant workplace records
- operating gas infrastructure to meet nominated demand
- performing work under or without supervision
- planning to operate gas infrastructure to meet nominated demand
- producing gas schedule
- producing system generated reports, including:
 - customer specific
 - daily and weekly

- trending
- using appropriate SCADA language
- using strategies for dealing with difficult situations and a variety of stakeholders, including:
 - relevant customers and suppliers
 - workplace colleagues
 - workplace managers.

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:

- application of applicable operating requirements of commercial agreements and contractual requirements in the gas industry
- excavation machinery and their effects used near pipelines
- gas industry facilities and infrastructure, including:
 - compression facilities
 - gas processing facilities including coal seam methane plants
 - liquefied petroleum gas (LPG) processing facilities
 - odourisation facilities
 - pipeline locations
 - regulation and metering facilities
 - scraper stations and pigging facilities
- gas industry WHS/OHS legislated requirements
- gas industry production, transmission and distribution areas
- gas industry products, processes and characteristics
- gas industry reports and documentation
- location of Control Centres and other places where communication processes occur
- operating principles associated with pipelines and other gas infrastructure, including:
 - pigging techniques and their roles for pipeline maintenance
 - pipeline specifications
 - pipeline threats, identification and control
 - relevant manufacturer specifications
 - relevant pipeline legislation, regulatory and advisory standards and codes of practice
 - relevant safe work method statements (SWMS), job safety assessments and risk mitigation processes
- relevance of coating and cathodic corrosion protection
- relevant workplace documentation
- relevant workplace policies and procedures
- stakeholders
- SCADA trends, alarms, set points and security levels.

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>