



Australian Government

Assessment Requirements for UEGNSG346 Launch and recover PIGs in gas transmission pipelines

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:

- analysing data/results from pigging to determine pipeline condition
- applying decision-making and conflict resolution techniques
- applying fault-finding and troubleshooting techniques
- applying relevant industry standards, guidelines, codes of practice, legislation and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - ensuring emergency response procedures are in place
 - conducting job safety analysis (JSA)
 - working safely with hazardous materials and equipment
 - hazard identification and reporting
 - implementing risk control measures
 - selecting and using correct personal protective equipment (PPE)
- applying sustainable energy and environmental principles and practices
- communicating with relevant stakeholders
- completing work and relevant documentation, reports, records and drawings
- conducting quality and safety checks
- coordinating and briefing work party
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following traffic management plans
- following workplace procedures
- interpreting technical drawings and plans
- inspecting pipeline inspection gauges (PIGs) to determine wear
- isolating and de-energising systems
- launching, tracking, receiving and recovering gas transmission PIG
- obtaining, monitoring and complying with relevant work permits
- obtaining and using relevant tools, equipment and measuring devices, including:

- gas detector
- service locator
- preparing and planning for pigging gas transmission pipelines
- preparing station and PIG trap for launch
- recording data
- re-establishing transmission pipeline to operational condition
- testing and inspecting pipeline and pigging equipment.

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:

- fault-finding and troubleshooting techniques
- hazardous activities, including lifting, climbing, working in confined spaces, excavations, trenches or aloft, and use of power tools
- pigging a pipeline, including:
 - required set up
 - insertion/launching
 - monitoring and communication
 - capture/recovery
 - analysis and interpretation of data captured through the pigging process
 - traps
 - anomalies, such as ‘stuck pig’
 - dangers
 - waste disposal
- pipeline preparation, including:
 - relevant authorities and persons to be notified and approval requirements
 - types of pipeline materials
 - new and existing pipelines and stations
 - safety requirements and procedures
 - manufacturer operating instructions and workplace procedures
 - trap launchers and receivers installed
 - water and waste disposal requirements
 - pipeline pigging sequence
- quality and safety checks
- relevant documentation, reporting and communication for pigging
- relevant industry plant, equipment, tools and materials
- relevant industry standards, guidelines, codes of practice and regulations
- relevant work permits
- relevant WHS/OHS legislated requirements, including:

- hazard identification and reporting
- implementing risk control measures
- risk assessment
- hazardous and flammable materials
- environmental and sustainable energy principles and practices
- traffic management plans
- types of PIGs and applications.

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>