



Australian Government

Assessment Requirements for UEGNSG312 Inject gas into underground storage

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:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental requirements and codes of practice, including:
 - emergency procedures and response actions
 - hazard identification and reporting
 - implementing risk control measures
 - selecting and using correct personal protective equipment (PPE)
- communicating with relevant person/s
- completing work and relevant documentation
- conducting quality and safety checks
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following workplace procedures, including:
 - controlled and emergency shutdown procedures
 - gas compression procedures
 - gas injection procedures
 - gas pressurisation and balancing flow procedures
 - gas temperature controlling procedures
 - plant inlet procedures
- isolating/deisolating equipment
- injecting gas into the underground storage correctly and safely according to flow rate, pressure and temperature requirements and in accordance with workplace procedures and industry standards
- obtaining and using relevant equipment and tools, including:
 - compressor systems
 - fittings
 - gas cooling exchanges
 - gas sampling equipment

- hand tools
- leak detection
- testing equipment.

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:

- above and down hole well configuration, including:
 - Christmas tree or well head
 - formation characteristics
 - intermediate casing
 - production casing
 - production tubing
 - underground storage characteristics
 - well surface casing
- chemicals in the workplace, including:
 - gas chemicals used for gas treatment
 - hazardous substances and dangerous goods
- gas characteristics and hazards
- gas industry drawings, plans and material lists
- organisational health safety and environmental requirements
- plant and equipment in an underground storage facility environment, including:
 - dehydrators
 - fittings
 - gas sampling equipment
 - hand tools
 - heat exchangers
 - leak detection equipment
 - prime movers
 - separators
- plant operating specifications and parameters, including:
 - equipment minimum and maximum pressures
 - minimum and maximum storage volumes
 - reservoir minimum and maximum pressures
 - temperatures
 - injection rates
- preservation of underground storage
- quality and safety checks
- regulations, legislative requirements and codes of practice

- relevant permit to work systems
- workplace procedures, including:
 - gas pressurisation procedures
 - controlled and emergency shutdown procedures
 - gas compression procedures
 - gas flow control procedures
 - gas pressure control procedures
 - gas temperature controlling procedures
 - plant inlet procedures
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes
- relevant stakeholders, including:
 - authorised persons
 - authorities
 - emergency personnel
 - permit holders
- relevant WHS/OHS legislated requirements, including:
 - applicable emergency procedures
 - environmental and sustainable energy principles and practices
 - hazards, risk assessment and control measures
- relevant workplace documentation
- relevant workplace policies
- transmission pipeline operating parameters and requirements.

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>