



Australian Government

**Assessment Requirements for UEGNSG904
Inject hydrogen gas into distribution
networks**

Release: 1

Assessment Requirements for UEGNSG904 Inject hydrogen gas into distribution networks

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) requirements, including:
 - emergency procedures and response actions
 - hazard identification and reporting
 - implementation of risk control measures
 - selection and use of correct personal protective equipment (PPE)
 - safely working with hazardous materials and equipment
- applying sustainable energy and environmental principles and practices
- accessing and handling hydrogen container
- communicating with relevant stakeholders, including:
 - authorised persons
 - authorities
 - clients
 - landowners
 - tenants
- completing work and relevant documentation
- complying with regulations, industry standards, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- 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
- injecting hydrogen into distribution networks
- purging the injection line
- obtaining and using relevant equipment and tools, including:
 - alarm and communication equipment
 - fittings

- gas analysis equipment
- hand tools
- leak detection
- measuring equipment
- 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:

- emergency procedures, including shutdown procedures
- gas industry drawings, plans and material lists
- hydrogen characteristics
- hydrogen container status, including:
 - inventory
 - pressure
 - temperature
- permit to work systems for a hydrogen environment
- plant and equipment in a hydrogen environment, including:
 - alarm and communication equipment
 - fittings
 - gas analysis equipment
 - gas analysis equipment
 - hand tools
 - leak detection
 - measuring equipment
 - testing equipment
- regulations, industry standards, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes
- relevant stakeholders, including:
 - authorised persons
 - authorities
 - clients
 - landowners
 - tenants
- relevant WHS/OHS legislated requirements, including:
 - applicable emergency equipment and procedures
 - hazards, risk assessment and control measures

- environmental and sustainable energy principles and practices
- relevant workplace documentation
- quality and safety checks
- relevant workplace policies and procedures
- technical drawings for the hydrogen environment
- working safely in a hydrogen environment.

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>