



Australian Government

**Assessment Requirements for UEGNSG901
Apply safety practices, procedures, and
compliance standards for handling
hydrogen gas**

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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) requirements, including:
 - safe working practices
 - relevant regulations and codes of practices in the workplace
 - training and workplace directives
 - checking tools, materials and equipment for safety and correct operation
 - isolating plant/machinery/equipment, including:
 - demonstrating Lock Out Tag Out procedures
- applying effective atmospheric testing techniques
- completing relevant workplace documentation
- communicating with relevant stakeholders, including:
 - authorised persons
 - authorities
 - clients
- complying with regulations, industry standards, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- dealing with unplanned events/situations in accordance with scope of responsibility and workplace procedures, in a manner that minimises risk to personnel and equipment
- following and applying work procedures and instructions as they apply to risk control measures
- identifying hazards and implementing and monitoring control measures, including:
 - identifying potential sources of ignition
- obtaining applicable work permits, clearances and isolation permissions prior to entering the work area
- participating regularly in consultation processes
- preparing to enter a gas work area in accordance with workplace procedures

- reporting hazards to relevant person/s in accordance with workplace procedures
- selecting and using appropriate tools and equipment, including:
 - gas detection equipment
 - personal protective equipment (PPE).

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:

- common causes of hydrogen accidents and ignition
- emergency procedures and incident management requirements and procedures
- hazardous areas, including:
 - hazards associated with working in a hazardous area
 - requirements for working in a designated hazardous area
 - workplace situations that could be classified as a hazardous area
- hazards associated with gas supply work environments
- hydrogen characteristics, including:
 - combustion terminology
 - hydrogen compatibility
 - hydrogen's chemical properties
 - hydrogen's physical properties
 - reaction terminology
 - safe storage procedures and purpose and interpretation of safety data sheet (SDS)
- hydrogen sources
- hydrogen usages
- regulations, industry standards, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- relevant stakeholders
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant WHS/OHS policies and procedures, including:
 - hazard identification
 - risk assessment and control
- relevant work area access, clearances and isolation permissions/permits
- relevant workplace documentation, policies and procedures
- techniques to check tools, materials and equipment for safety and correct functionality
- techniques to monitor implemented control measures
- working safely with electricity
- working safely with gases.

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 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>