



Australian Government

Assessment Requirements for UEGNSG014 Control industrial gas storage/processing operations

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 industry standards, guidelines, codes of practice and regulations
- applying relevant workplace safety requirements, including:
 - applying emergency response procedures
 - applying sustainable energy and environmental principles and practices
 - conducting hazard identification and reporting
 - implementing risk control measures
 - selecting and using correct personal protective equipment (PPE)
 - selecting and using relevant equipment in an industrial gas environment
 - working safely with hazardous materials and equipment
- communicating in an industrial gas environment
- communicating with relevant person/s
- completing relevant reports and documentation
- controlling storage operations
- dealing with unplanned events
- following workplace procedures
- interpreting relevant drawings, plans and material lists
- isolating systems
- obtaining and complying with relevant work permits
- planning control of industrial gas storage operations
- recording relevant information
- recording and reporting corrective actions in an industrial gas environment
- recording industrial gas information
- shutting down operations
- working safely in an industrial gas environment.

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:

- correct use of plant and equipment in an industrial gas environment, including:
 - transfer equipment, including compressors or pumps
 - transfer methods for pipes and hoses
 - selection, testing and set-up processes for transfer equipment
 - making analytical judgements for appropriate adjustments to plant and equipment
 - test equipment and its uses
 - operation, testing and inspecting equipment that includes pressure vessels and associated fitting
 - manufacturer specifications to make adjustments to parts where appropriate
 - how to select appropriate equipment for tasks associated with industrial gas
 - operating gas analysis equipment
 - operating gas alarm and communication equipment
- gas industry drawings, plans and material lists
- gas industry products, processes and characteristics
- industrial gas storage
- industrial gas, characteristics and properties, including but not limited to propane, butane, propylene, nitrogen, oxygen, carbon dioxide, argon, hydrogen, helium and acetylene
- industrial gas production process, including:
 - identifying and reporting problems associated with transfer processes and procedures
 - processing, handling and storage operations for industrial gas
- how to mix/blend the properties of industrial gas
- permit to work systems for an industrial gas environment
- properties of industrial gas
- properties of static electricity and how to manage it in an industrial gas environment
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety analysis (JSA) or risk mitigation processes
- relevant stakeholders, including authorised persons, authorities, clients, landowners and tenants
- relevant workplace safety requirements, including:
 - legislated work health and safety (WHS)/occupational health and safety (OHS) requirements
 - legislated industry/technical specific requirements
 - workplace safety procedures
- relevant workplace documentation
- relevant workplace policies and procedures
- site inspections
- technical drawings for the industrial gas environment

- working safely in an industrial gas environment.

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>