



**Australian Government**

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

**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.

## **Application**

This unit involves the skills and knowledge required to apply safety practices, procedures, and compliance standards for handling hydrogen.

It includes the skills and knowledge required to apply work health and safety (WHS)/occupational health and safety (OHS) regulations, codes and practices in the workplace, industry standards, and follow workplace procedures for hazard identification and risk control for working with hydrogen.

The application of the skills and knowledge described in this unit may require a licence/registration to practise in the workplace.

Other conditions may apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this unit.

## **Pre-requisite Unit**

Not applicable

## **Competency Field**

Hydrogen

## **Unit Sector**

Gas Industry

## **Elements and Performance Criteria**

### **ELEMENTS**

Elements describe the essential outcomes.

### **PERFORMANCE CRITERIA**

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1 Prepare to handle hydrogen gas</b>                                                     | <ul style="list-style-type: none"><li>1.1 WHS/OHS requirements, legislative requirements and workplace procedures for a given work area are identified, obtained and applied</li><li>1.2 Work area access permits, clearances and isolation permissions are obtained as required from relevant person/s in accordance with workplace procedures</li><li>1.3 Appropriate tools, materials and equipment required, including personal protective equipment (PPE), for work are checked for safety and correct functionality in accordance with workplace procedures and relevant industry standards</li><li>1.4 Isolation and tagging of plant/machinery and equipment are carried out to prevent creation of hazards from loss of machine, system or process control in accordance with workplace procedures</li><li>1.5 Personal protective equipment (PPE) is worn appropriate to the work area and in accordance with workplace procedures</li></ul> |
| <b>2 Apply safe working practices to handling hydrogen gas</b>                              | <ul style="list-style-type: none"><li>2.1 WHS/OHS risk control measures are implemented including atmospheric testing and other legislative requirements and workplace procedures for carrying out the work followed</li><li>2.2 Workplace procedures for dealing with unplanned events and emergencies are followed in accordance with WHS/OHS, legislative requirements</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>3 Follow workplace procedures for hazard identification and risk control of hydrogen</b> | <ul style="list-style-type: none"><li>3.1 Hazards are identified and risk control measures implemented and monitored in consultation with relevant person/s</li><li>3.2 WHS/OHS documentation, including incident and maintenance records, are completed in accordance with regulatory requirements and workplace procedures</li><li>3.3 WHS/OHS training and directives are followed in accordance with regulatory requirements and workplace procedures</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEG Gas Industry Training Package Companion Volume Implementation Guide.

Handling hydrogen must include at least one of the following environments:

- hydrogen production
- hydrogen storage
- hydrogen injection into gas networks

## Unit Mapping Information

This is a new unit.

## Links

Companion Volume Implementation Guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6a6c032e-ffcb-4f3d-8063-415efbd261e8>