



**Australian Government**

# **UEGNSG904 Inject hydrogen gas into distribution networks**

**Release: 1**

# 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.

## Application

This unit involves the skills and knowledge required to inject hydrogen gas into distribution networks in accordance with relevant legislation, codes of practice, industry standards, regulations and workplace procedures.

It includes following procedures to carry out the work correctly and safely, using appropriate materials, tools and equipment.

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.

#### 1 Prepare to inject hydrogen into distribution networks

### PERFORMANCE CRITERIA

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

**1.1** Job requirements and workplace procedures for the work are obtained and discussed with relevant person/s to establish and confirm the work schedule

- 1.2 Work health and safety (WHS)/occupational health and safety (OHS), environmental and sustainable energy policies and procedures for the work are obtained and applied
  - 1.3 Hazards and WHS/OHS risks are identified and prioritised and control measures implemented and monitored
  - 1.4 Equipment, tools and personal protective equipment (PPE) required for the job are obtained and checked for correct operation and safety in accordance with workplace procedures
  - 1.5 Work area is prepared to minimise risk and damage to property, commerce and individuals in accordance with job instructions, work schedule and workplace procedures
- 2 Inject hydrogen into distribution networks**
- 2.1 WHS/OHS risk control measures and policies and procedures are followed in accordance with workplace procedures
  - 2.2 Hazardous activities are performed safely in accordance with job instructions, regulatory requirements and workplace procedures
  - 2.3 Hydrogen storage tank is positioned safely for injection
  - 2.4 Connection between tank and pipelines is leak tested to ensure gas tightness
  - 2.5 Blending equipment is installed and operated correctly in accordance with workplace procedures
  - 2.6 Potential hazards and safety risks are identified and reported to authorised person/s for directions in accordance with workplace procedures
  - 2.7 Purging is conducted in accordance with workplace procedures
  - 2.8 Hydrogen gas is injected into distribution networks correctly and safely according to job requirements, regulatory requirements, industry standards and workplace procedures

- 2.9** Unplanned events are dealt with or referred to authorised person/s for directions in accordance with level of responsibility and workplace procedures
- 2.10** Quality and safety checks of the work are conducted in accordance with job requirements, industry standards and workplace procedures
- 3 Complete work and relevant documentation**
- 3.1** Work area is cleaned up and made safe in accordance with job instructions and workplace procedures
- 3.2** Tools, equipment and any surplus resources and materials are cleaned, checked and returned to storage in accordance with workplace procedures
- 3.3** Relevant person/s are notified of work completion in accordance with workplace procedures
- 3.4** Work completion records and report forms are completed in accordance with job instructions and workplace procedures

## 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.

## 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>