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**H2TAS004 Carry out routine work  
activities in a hydrogen fuel  
environment**

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## **H2TAS004 Carry out routine work activities in a hydrogen fuel environment**

### **Modification History**

Release 1. This is the first release of this unit of competency

### **Application**

This unit involves the skills and knowledge required to undertake scheduled routine work activities involving hydrogen fuel.

Routine work can include undertaking functions encompassing activities such as the operation of non-critical generation plant systems, and performing minor maintenance on equipment. Tasks may also involve cleaning, warehousing, stock duties and the operation of load shifting equipment.

Competency in this unit requires the ability carry out routine work activities in a hydrogen environment. Individuals will work, under supervision.

No licensing, legislative or certification requirements apply to unit at the time of publication.

### **Pre-requisite Unit**

There are no prerequisite units.

### **Competency Field**

Maintenance

### **Unit Sector**

Hydrogen

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

#### **1 Prepare to undertake routine work activities**

#### **2 Carry out work activities**

### PERFORMANCE CRITERIA

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

- 1.1** Instructions for work activities, including permits to work, are identified and confirmed, in accordance with workplace procedures
- 1.2** Work, Health and Safety (WHS) procedures are identified and confirmed for use, in accordance with workplace procedures
- 1.3** Tools, equipment and Personnel Protective Equipment are identified and checked to ensure they are safe to use, in accordance with workplace procedures
- 1.4** Appropriate personnel are consulted, in accordance with workplace procedures, to ensure work is coordinated at site with others
- 1.5** Resources and materials are confirmed and obtained, in accordance with workplace procedures
- 1.6** Schedule of work, including practices for working safely such as the use of Material Safety Data Sheets (MSDS), manual handling techniques and personal protective equipment are confirmed, in accordance with workplace procedures
- 2.1** Hazards are identified and risk controls are implemented, in accordance with workplace procedures
- 2.2** Schedule of work is followed, in accordance with workplace procedures, to ensure work activities are completed

- 2.3** Work practices, applicable to the hydrogen industry, are applied, in accordance with workplace procedures
  - 2.4** Instructions are sought, if required, in accordance with workplace procedures, from appropriate personnel when unplanned events occur
  - 2.5** Continuous checks on work quality are undertaken, in accordance with workplace procedures
- 3 Check completed work activities**
- 3.1** Final checks are made to ensure work conforms with instructions and requirements
  - 3.2** Appropriate personnel are notified of work completion, in accordance with workplace procedures
  - 3.3** Tools, equipment, resources and materials are cleaned, checked and returned to storage, in accordance with workplace procedures
  - 3.4** Work area is cleaned and made safe, in accordance with workplace procedures, using sustainable energy practices
  - 3.5** Records are updated, in accordance with 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.

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Non-essential conditions may be found in the Companion Volume Implementation Guide.

## **Unit Mapping Information**

## **Links**

# **Assessment Requirements for H2TAS004 Carry out routine work activities in a hydrogen fuel environment**

## **Modification History**

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## **Performance Evidence**

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and includes:

- applying sustainable energy practices
- applying Work, Health and Safety (WHS) requirements including
  - emergency procedures
  - hazard identification
  - personal protective equipment (PPE)
  - risk control measures
  - safe working practices
- checking work results
- communicating with personnel
- completing lubrication, servicing and maintenance activities
- complying with legislation, industry standards, codes of practice and regulations
- dealing with unplanned events
- interpreting manufactures' specifications and manuals
- preparing to undertake routine work activities
- using permit to work system, Material Data Safety Sheets (MSDS) and manual handling techniques
- using tools, resources, materials and permits

## **Knowledge Evidence**

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions and includes knowledge of:

- cleaning methods and tools
- cleaning solvents
- electrical supply industry routine tasks
- legislation, industry standards, codes of practice and regulations
- lubrication, service and maintenance requirements
- manual handling techniques
- manufacturers' specifications and manuals
- Material Data Safety Sheets (MSDS)
- permit to work system
- potential hazards
- sustainable energy practices
- types of power generation plant
- WHS/OHS legislated requirements including
  - emergency procedures
  - hazard identification
  - personal protective equipment
  - risk control measures
  - safe working practices
- workplace documentation
- workplace policies and procedures

## **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 processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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 currently used in industry
- applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.