



**Australian Government**

# **UEEHA0006 Maintain equipment associated with hazardous areas**

**Release: 1**

# UEEHA0006 Maintain equipment associated with hazardous areas

## Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

## Application

This unit involves the skills and knowledge required to maintain equipment associated with hazardous areas. It includes determining required remedial maintenance from inspection reports; carrying out remedial and breakdown maintenance in compliance with regulations and safe working methods, standards and manufacturer's instructions; and completing the necessary maintenance documentation. It is adopted from clause 2.6 of AS/NZS 4761.1:2018 Competencies for working with electrical equipment for hazardous areas (EEHA).

For the purpose of applying this unit, 'hazardous areas' are defined as areas in which an explosive atmosphere may be present.

Site-specific work permits maybe required to work in the hazardous environment. In addition, other permits may be required, such as confined space and to operate specific pieces of equipment such as elevated work platforms (EWPs) in various jurisdictions.

Additional and/or other conditions may apply in some jurisdictions subject to regulations related to electrical work. Practice in the workplace and during training is also subject to work health and safety (WHS)/occupational health and safety (OHS) regulations.

## Pre-requisite Unit

UEEHA0004 Enter a classified hazardous area to undertake work related to electrical equipment

UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area

and

UEEEL0039 Design, install and verify compliance and functionality of general electrical installations

or

UEEEL0028 Conduct compliance and functional verification of electrical apparatus and existing circuits

or

UEEIC0048 Verify compliance and functionality of instrumentation and control installations

## Competency Field

Hazardous

## Unit Sector

Electrotechnology

## Elements and Performance Criteria

### ELEMENTS

### PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

#### **1 Prepare to carry out maintenance of equipment**

- 1.1** WHS/OHS policies and procedures to work in hazardous areas are identified and applied
- 1.2** Area classification and details of explosion-protected equipment and wiring are ascertained from hazardous area zone drawings and equipment certification documents held in the verification dossier
- 1.3** Extent of remedial maintenance to be conducted is determined from regulatory requirements and/or inspection records held in the verification dossier
- 1.4** Extent of breakdown maintenance is evaluated and confirmed with person/s reporting the breakdown
- 1.5** Limits of breakdown maintenance that can be carried out in situ with regard to explosion risk is determined in consultation with technical management personnel
- 1.6** Required tools, equipment and testing devices are obtained and checked for operational safety

#### **2 Carry out equipment maintenance**

- 2.1** WHS/OHS policies and procedures for working in hazardous areas, including isolation of equipment, are followed
- 2.2** Work is carried out in accordance with inspection records
- 2.3** Requirements and limitations of scheduled and breakdown remedial maintenance requirements are applied

- 2.4 Equipment is adjusted and maintained within the limits permitted by the equipment certification and in accordance with the manufacturer's instructions
  - 2.5 Certification documentation for like-for-like replacement parts is sighted to ensure compliance with the equipment certification and manufacturer's instructions
  - 2.6 Circuits of equipment being withdrawn from service are isolated and terminated safely and in accordance with maintenance standards
  - 2.7 Flexible cables and cords are examined and removed from service if they are not in immediate use or are found to be defective or damaged
  - 2.8 Spare equipment, flexible cables and cords are maintained and stored where they are not likely to suffer deterioration or damage
- 3 **Complete maintenance work and documentation**
  - 3.1 Inspection of maintenance work is arranged in compliance with maintenance standards and regulatory requirements
  - 3.2 Action is taken to rectify maintenance defects (non-conformances) found during the maintenance work inspection
  - 3.3 Safety assessment for isolation of equipment is recorded in accordance with maintenance standards
  - 3.4 Completed maintenance work is documented in accordance with requirements and forwarded to relevant person/s for inclusion in the verification dossier

## 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 UEE Electrotechnology Training Package

Companion Volume Implementation Guide.

Maintaining equipment associated with hazardous areas must include:

- maintaining electrical equipment in a classified hazardous area

## Unit Mapping Information

No equivalent unit.

## Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>