



Australian Government

MEM13016 Work in hazardous areas

Release: 2

MEM13016 Work in hazardous areas

Modification History

Release 2. Prerequisite units updated

Release 1. New unit

Application

This unit has been developed for Engineering Tradesperson – industrial electrician apprenticeship training and the recognition of trade-level skills in working in hazardous areas.

It covers the basic requirements for performing installation and maintenance work on electrical equipment in hazardous areas. It provides a fundamental understanding of hazardous areas with regard to Electrical Equipment for Hazardous Areas (EEHA) principles, hazardous area classification definitions and factors affecting this aspect, protection techniques, ex-certification, competency requirements for personnel affecting hazardous areas, relevant standards and restrictions to repair work.

If more extensive skills are required for hazardous areas then the appropriate national accredited unit/s should be selected.

Some jurisdictions require the holder of this unit to be licensed or certified and users should check with the relevant authorities.

Band: A

Unit Weight: 2

Pre-requisite Unit

MEM13015 Work safely and effectively in manufacturing and engineering

Competency Field

Work health and safety

Elements and Performance Criteria

Elements describe the essential outcomes.

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

- | | |
|-------------------------------|----------------------------------------------------------------------------------------------------|
| 1. Determine job requirements | 1.1 Follow standard operating procedures (SOPs) |
| | 1.2 Comply with work health and safety (WHS) requirements at all times, including appropriate risk |

| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | control measures |
| | 1.3 Use appropriate personal protective equipment (PPE) in accordance with SOPs |
| | 1.4 Identify job requirements from specifications, drawings, job sheets or work instructions |
| 2. Prepare to work in hazardous areas | 2.1 Ascertain and interpret the area classification regarding zoning, gas group and temperature class from hazardous area layout drawings |
| | 2.2 Identify factors that may affect the classification of an area |
| | 2.3 Identify relevant hazards specific to hazardous areas and implement appropriate risk control measures |
| | 2.4 Obtain specialist tools, equipment and testing devices needed to carry out maintenance work |
| 3. Work in hazardous areas | 3.1 Carry out maintenance work in accordance with specifications and procedures |
| | 3.2 Check and test equipment to ensure functionality and complies with appropriate documentation |
| | 3.3 Identify hazardous area defective and unsuitable equipment and components for the application and source replacement items with the appropriate equipment certification |
| | 3.4 Carry out adjustment and/or permitted repairs to equipment using appropriate tools, equipment and techniques to specifications |
| 4. Complete work in hazardous areas | 4.1 Ensure all completed work and testing complies with the relevant EEHA Standards |
| | 4.2 Record all inspection and maintenance activities according to established procedures and regulatory |

Elements describe the essential outcomes.

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

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

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

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Compliance with relevant EEHA Standards includes:

- hazardous area classification of the area regarding zone, gas group and temperature class
- factors affecting the zoning of an area
- protection technique of the equipment
- ex-certification
- competency requirements for personnel working on the equipment and the required supervision
- which repairs to the equipment may be restricted
- unauthorised modifications
- manufacturer specifications

Unit Mapping Information

No equivalent unit

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>