



Australian Government

UEPMNT319 Maintain and test fixed fire protection systems

Release: 1

UEPMNT319 Maintain and test fixed fire protection systems

Modification History

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

Application

This unit involves the skills and knowledge required to conduct maintenance, fault finding and in-service testing of fixed fire protection systems.

A fixed fire protection system is a set of components that detect a fire, alert personnel and/or occupants and extinguish the fire, they are actuated by smoke, flames or heat.

Competency in this unit requires the ability to plan work, maintain fixed fire protection systems, conduct in-service testing and to report on all completed work tasks. Individuals will, in general, work under supervision in an electrical, electronic and/or mechanical equipment repair workshop or on site.

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

Note: Workplace practices

The application of the skills and knowledge described in this unit of competency may require a licence or training permit to practice in the workplace, where work is carried out on gas and electrical installations. Additional and/or other conditions may apply under state and territory legislative and regulatory licensing requirements.

Pre-requisite Unit

UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits

UEENEEE102A Fabricate, assemble and dismantle utilities industry components

UEENEEE104A Solve problems in D.C. circuits

UEENEEE105A Fix and secure electrotechnology equipment

UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

UEENEEG006A Solve problems in single and three phase low voltage machines

UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits

UEENEEG063A Arrange circuits, control and protection for general electrical installations

UEENEEG101A Solve problems in electromagnetic devices and related circuits

UEENEEG102A Solve problems in low voltage A.C. circuits

UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

Competency Field

Maintenance

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan and prepare for work

PERFORMANCE CRITERIA

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

- 1.1** Requirements including scope of work and assigned roles are identified and confirmed with appropriate personnel or by site inspection, in accordance with workplace procedures
- 1.2** Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations, legislative requirements, industry standards, codes of practice, manufacturers' specifications, environmental obligations and workplace procedures are reviewed for work preparation
- 1.3** Resources are obtained and inspected, in accordance with workplace procedures for compliance with job specifications
- 1.4** Relevant plans, drawings and manuals are selected and interpreted, in accordance with workplace procedures
- 1.5** Correct materials and components for work are obtained and inspected, in accordance with workplace procedures, for compliance with job specification
- 1.6** Work is planned, sequenced and prioritised, in accordance with workplace procedures
- 1.7** Potential hazards are identified and risk control measures are selected and implemented, in accordance with workplace procedures

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| | 1.8 | Work area is prepared, in accordance with workplace procedures |
| 2 Maintain fixed fire protection systems | 2.1 | Dismantling of fire protection system equipment is completed, in accordance with workplace procedures |
| | 2.2 | Faulty components are repaired or overhauled, in accordance with workplace procedures and fire protection system requirements |
| | 2.3 | Replacement equipment or items are inspected, in accordance with workplace procedures, to confirm compliance with fire protection system specifications |
| | 2.4 | Modifications or alterations are undertaken, in accordance with workplace procedures and fire protection system requirements |
| | 2.5 | Maintenance is performed, in accordance with workplace procedures and fire protection system requirements |
| 3 Conduct in service testing | 3.1 | In-service testing is carried out, in accordance with workplace procedures and fire protection system requirements |
| | 3.2 | In-service testing is carried out, in accordance with relevant statutory regulations |
| | 3.3 | Abnormalities, faults and deviations from fire protection system specifications are logged and reported to appropriate personnel, in accordance with workplace procedures and legislative requirements |
| 4 Complete work | 4.1 | Work is completed and appropriate personnel are notified, in accordance with workplace procedures |
| | 4.2 | Work area is cleared of waste, cleaned, restored and secured, in accordance with workplace procedures |
| | 4.3 | Tools and equipment are cleaned, maintained and stored, in accordance with workplace procedures |
| | 4.4 | Work completion details are finalised, in accordance with workplace procedures |
| | 4.5 | Work area is prepared, 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.

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

Unit Mapping Information

This unit replaces and is equivalent to UEPMT319B Maintain and test fixed fire protection systems.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>

Assessment Requirements for UEPMNT319 Maintain and test fixed fire protection systems

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 Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- assessing fixed fire system and equipment
- communicating with personnel
- completing work as per scheduling requirements
- conducting in-service testing of fire protection system
- dismantling and reassembling components
- interpreting manufacturers' specifications and manuals
- maintaining fixed fire protection systems
- performing removal and replacement techniques and procedures
- planning for fixed fire protection maintenance and testing work
- selecting and using overhaul and maintenance techniques and procedures
- using tools and measuring equipment
- utilising technical drawings and data
- working with diagnostic, testing techniques, levelling and alignment techniques

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:

- assessment techniques
- data recording techniques
- diagnostic and testing techniques

- generation plant, equipment and its location
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- measuring equipment
- plant and systems
- technical drawings and data
- tools
- types of fixed fire protection systems and characteristics
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:
 - emergency procedures
 - hazard identification
 - 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.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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.

Links

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