



Australian Government

Assessment Requirements for UEEEC0041 Install fire detection and warning system apparatus

Release: 1

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Modification History

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

Performance Evidence

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

- apply sustainable energy principles and practices
- applying industry standards and codes of practice for fire protection systems and equipment
- applying relevant work health and safety (WHS)/occupational health and safety (WHS/OHS) requirements, including using of risk control measures
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- documenting installation
- maintaining fire integrity
- placing and securing devices and accessories accurately
- reading and interpreting relevant documents with apparatus/device locations and connection arrangements
- terminating cable and conductors correctly.

Knowledge Evidence

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

- common operation and interface connections to other systems
- common operation and types of field data gathering equipment
- common operational requirements and types of control and indicating equipment
- effective and ineffective locations for fire detection devices and common causes of false alarms
- fire protection and warning system installations regulations
- fire protection technologies, fire detection and warning systems, technical industry standards and regulations
- hazards associated with low voltage (LV), extra-low voltage (ELV) and high currents
- input devices, including conventional alarm zones, analogue or analogue addressable fire

- detectors, flow switch connections or switch connections
- interface communication devices, including warden in communication phones and remote public address (PA) inputs
- operating principles and characteristic of the various warning system components
- operating principles and characteristic of types of fire alarm detectors
- output devices, including shutdown signal, door or system release controls and solenoid valve controls
- purpose and interface requirements of smoke hazard management system
- purpose and operating principles of fire detection and warning systems
- purpose of fire alarm and warning systems
- relevant job safety assessments or risk mitigation processes, including:
 - relevant risk control measures used for dealing with the hazards related to fire protection systems
 - risks and control measures associated with fire protection equipment
- relevant manufacturer specifications
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures, including:
 - interface procedures to isolate control functions between different fire protection building service systems
 - procedures for isolating/reinstating fire protection systems to inhibit back-to-base signals to monitoring station
 - procedures for isolating/reinstating fire protection systems to inhibit alarms operating fire protection suppression equipment
 - procedures for isolating/reinstating sections or parts of a fire protection system to inhibit alarms during building maintenance or system testing
 - relevant workplace procedures for isolating/reinstating and disconnection and reconnection of supplies in excess of ELV
- system interface controls, including communication signals to remote control and indicating equipment, building monitoring systems, paging system and colour graphics
- warning devices and their operating parameters
- warning indicators, including flashing lights for hearing impaired persons and fire brigade building indication.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in suitable simulated workplace

operational situations that replicate workplace conditions.

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.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, facilities, equipment and personal protective equipment (PPE) currently used in industry
- resources that reflect current industry practices in relation to positioning and terminating fire detection and warning system apparatus
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume implementation guides are found in VETNet - -

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