Australian Government

Assessment Requirements for UEEEC0003 Assemble and set up basic security systems

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:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
  - applying safe working practices
  - using risk control measures
  - checking tools, equipment and testing devices for correct operation and safety
  - checking circuits/machines/plant are isolated
  - terminating cables and conductors safely
- applying sustainable energy principles and practices
- assembling and setting up wired and wireless security systems, including:
  - placing and securing devices and security system components accurately
  - terminating cable and conductors correctly
  - completing and documenting installation
  - dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
  - installing system without waste or damage
- communicating effectively with relevant stakeholders
- complying with relevant electrical regulations
- complying with relevant security regulations and legislations
- consulting with work supervisor
- determining the nature, location and security system required for work
- maintaining a clean worksite and equipment
- obtaining correct system and relevant materials.

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:

- closed-circuit television (CCTV), including application, types of cameras and monitors, switching methods, earthing and ambient lighting
- communication systems, including:
  - Ademco contact ID
  - dialler systems
  - panel to base systems
  - relevant wired and wireless communication methods
- circuit arrangements, including:
  - end line resistors and a range of typical resistor values used in alarm systems
  - wiring of a detector with split end of line (EOL) resistors
  - zone doubling and open circuits and short circuits
- relays, including normally open and normally closed types, transistor as a switch, wiring diagram for a relay connected to an open collector output on an alarm panel, and typical uses for a relay type output
- electro-mechanical detectors, including:
  - active and passive infrared beams
  - renamed magnetic reed switches and optical fibre cable
  - strain system
  - types: ultrasonic, microwave, glass break and smoke
- effective communication techniques
- locations for accessories to be installed
- positioning of security controllers, access, intrusion and surveillance devices for optimum performance
- mechanical detectors, including pressure pads, trip wires, window tape, screens, switches and vibration
- relevant customer-imposed limitations
- relevant electrical industry standards, codes of practice and regulations
- relevant electrical regulations and legislations
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes
- relevant security regulations and legislation, including Acts and industry standards
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- relevant workplace referral and reporting procedures
- security panels, including:
  - batteries and locks commonly used in the security industry
  - features, applications, types, and maintenance of commonly used panels
  - operation of programmable and non-programmable panels

  - panel to base communication systems
  - power and sound sources used with security alarms
- security controllers, access, intrusion and surveillance devices, including:
  - mechanical detectors
  - electro-mechanical detectors
  - CCTV
  - communication systems
- security system assembly and set-up
- security system components and accessories, including:
  - relays
  - security panels
- techniques to check if circuits/machines/plant are isolated
- techniques to check if tools, equipment and testing devices are operating correctly and safely
- techniques to install security system without damage
- techniques to terminate cable and conductor
- tools, equipment and testing devices
- types of security systems.

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 workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in 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 other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- 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