



Australian Government

UEECD0025 Lay wiring/cabbling and terminate accessories for extra-low voltage (ELV) circuits

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.

Application

This unit involves the skills and knowledge required to lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits.

It includes preparing to lay, laying wiring/cabling and connecting accessories for ELV circuits. It also includes completing and reporting work activities.

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

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0020 Fix and secure electrotechnology equipment

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

Competency Field

Cross Discipline

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to lay wiring/cabling and connect accessories for

PERFORMANCE CRITERIA

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

1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures are identified and applied

ELV circuits

- 1.2** Hazards are identified, risks are assessed and control measures are implemented
 - 1.3** Safety hazards not previously identified are reported on job safety assessment and advice on risk control measures is sought from the work supervisor
 - 1.4** Location of work is obtained from relevant person/s to determine scope of work
 - 1.5** Advice is sought from relevant person/s to ensure work is coordinated with others
 - 1.6** Sources of materials required for work are determined in accordance with workplace procedures
 - 1.7** Tools, equipment and testing devices required for work are obtained in accordance with workplace procedures and checked for correct operation and safety
- 2 Lay wiring/cabling and connect accessories for ELV circuits**
 - 2.1** WHS/OHS workplace risk control measures for carrying out the work are followed
 - 2.2** Circuits/machines/plant are checked as isolated in accordance with workplace procedures
 - 2.3** Wiring and accessories are installed to comply with industry standards and job specifications with sufficient excess to affect terminations
 - 2.4** Accessories are installed straight and square in the required locations and within acceptable tolerances
 - 2.5** Cables and conductors are terminated at accessories in accordance with manufacturer specifications and relevant industry standards
 - 2.6** Cables installed for future service are marked and terminated in compliance with relevant industry standards and workplace procedures
 - 2.7** Unplanned events are responded to in accordance with workplace procedures and approval of immediate supervisor
 - 2.8** Cable installation and termination is carried out without wasting materials, damaging apparatus, circuits or the

surrounding environment using sustainable energy practices

3 Complete and report work activity

- 3.1** WHS/OHS completion risk control measures and workplace procedures are followed
- 3.2** Worksite is cleaned and made safe in accordance with workplace procedures
- 3.3** Work completion is documented and relevant person/s notified 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 UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Laying wiring/cabling and connecting accessories for ELV power and control cabling systems circuits must include:

- at least one of the following wiring/cabling systems:
 - unenclosed thermoplastic sheathed (TPS) cable
 - enclosed thermoplastic insulated (TPI) or sheathed cables
- at least three of the following wiring/cabling systems:
 - single cable
 - flexible cable
 - flexible cord
 - shielded cable
 - ribbon cable
 - other similar and like cable

Unit Mapping Information

This unit replaces and is equivalent to UEENEEE108A Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits.

Links

Companion Volume implementation guides are found in VETNet - -

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