



**Australian Government**

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

**Release: 1**

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

## 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>