



**Australian Government**

**UEERL0002 Attach cords, cables and plugs  
to electrical equipment for connection to  
1000 V a.c. or 1500 V d.c.**

**Release: 1**

# **UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.**

## **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 attach flexible cords, cables and plugs to electrical equipment connected to a supply up to 1,000 volts (V) alternating current (a.c.) or 1,500 V direct current (d.c.).

It includes planning and attaching flexible cords, cables and plugs; and using test equipment for inspection and safety testing. It also includes locating, inspecting, testing and repairing faults in flexible cords and plugs.

The skills and knowledge described in this unit require a licence or permit to practice in the workplace where work is carried out on electrical installations which are designed to operate at voltages greater than 50 V a.c. or 120 V d.c.

Competency development activities in this unit are subject to regulations directly related to licensing. Where a licence or permit to practice is not held, a relevant contract of training, such as an Australian Apprenticeship, may be required.

Additional and/or other conditions may apply in some jurisdictions subject to regulations related to electrical work. Practice in the workplace and during training is also subject to work health and safety (WHS)/occupational health and safety (OHS) regulations.

## **Pre-requisite Unit**

UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply.

## **Competency Field**

Restricted Licensing

## **Unit Sector**

Electrotechnology

## Elements and Performance Criteria

### ELEMENTS

### PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

#### **1 Plan electrical equipment connection**

**1.1** Work is planned, sequenced and prepared in accordance with WHS/OHS requirements and workplace procedures

**1.2** Condition and ratings of cords, cables and plugs is in accordance with workplace procedures and work instruction from relevant person/s

**1.3** Flexible cords, cables and plugs are selected in accordance with relevant industry standards and workplace procedures for condition and rating

**1.4** Materials necessary to complete work are obtained in accordance with workplace procedures and checked against work instructions

**1.5** Tools, equipment and testing devices needed to carry out work are obtained in accordance with workplace procedures and checked for correct operation and safety

**1.6** Flexible cords, cables and plugs are prepared without damage to insulation and conductors and in accordance with relevant industry standards

#### **2 Attach flexible cords, cables and plugs**

**2.1** WHS/OHS policies and workplace procedures are followed

**2.2** Single insulated metal framed equipment is earthed in accordance with relevant industry standards and workplace procedures

**2.3** Double insulated equipment is inspected and maintained in accordance with relevant industry standards and workplace procedures

**2.4** Conductors are connected to terminals ensuring required polarity is in accordance with relevant industry standards

#### **3 Inspect and test equipment for operation and safety**

**3.1** Electrical installation and operation of the cord/cable/s and plug/s connected to equipment are inspected and tested in accordance with relevant industry standards, work instructions and workplace procedures

- 3.2** Quality checks of work are undertaken in accordance with workplace procedures
- 4 Locate and repair faults in attached flexible cords, cables and plugs**
- 4.1** Electrical equipment and attached flexible cords, cables and plugs are checked and isolated in accordance with workplace procedures
- 4.2** WHS/OHS policies and workplace procedures are followed
- 4.3** Visual inspection and checks of the attached flexible cords, cables and plugs are conducted in accordance with workplace procedures to detect any abnormal, damage or fault
- 4.4** Faults in attached flexible cords, cables and plugs are confirmed and determined, components to be replaced are identified and details recorded in accordance with workplace procedures
- 4.5** Faults in attached flexible cords, cables and plugs are repaired in accordance with workplace procedures
- 4.6** Unplanned events are referred to relevant person/s for direction in accordance with workplace procedures
- 4.7** Status report/s is completed 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.

Attaching cords, cables and plugs to electrical equipment must include the following:

- cords, cables and plugs connected to equipment or cords, cables extension leads intended for multi-phase supplies up to 1,000 V a.c. to 1,500 V d.c.

This unit does not cover the knowledge and

skills necessary for the following work:

- competencies associated with fixed wiring
- in hazardous areas or on electrical equipment that is part of an explosion-protection technique
- on complex electrical apparatus, circuits and electrical work.

## Unit Mapping Information

This unit replaces and is equivalent to UEENEEP025A Attach cords, cables and plugs to electrical equipment for connection to 1000 Va.c. or 1500 Vd.c. supply.

## Links

Companion Volume implementation guides are found in VETNet - -

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