



**Australian Government**

# **UETDRDU012 Joint, terminate and maintain high voltage underground paper insulated cable**

**Release: 1**

# **UETDRDU012 Joint, terminate and maintain high voltage underground paper insulated cable**

## **Modification History**

Release 1. This is the first release of this unit of competency in the UET Transmission, Distribution and Rail Sector Training Package Release 2.0.

## **Application**

This unit involves the skills and knowledge required to joint, terminate and maintain high voltage (HV) underground paper insulated cable in the electricity supply industry (ESI).

It includes jointing, terminating and the testing of cable in new installations. It also includes maintaining cable in existing installations, including repairing, replacing, re-jointing or re-terminating and testing of de-energised cable.

It includes using a range of tools, equipment, specialised materials and manufacturer's instructions.

The application of the skills and knowledge described in this unit may require a licence/registration to practice in the workplace.

Other conditions may also apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this unit.

## **Pre-requisite Unit**

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

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0044 Solve problems in multiple path circuits

UEECD0046 Solve problems in single path circuits

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

UEEEL0020 Solve problems in low voltage a.c. circuits

UEEEL0021 Solve problems in magnetic and electromagnetic devices

UETDREL001 Apply environmental requirements

UETDREL005 Work safely in the vicinity of live electrical apparatus

## **Competency Field**

Distribution Underground

## Unit Sector

Not applicable.

## 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 Prepare to joint, terminate and maintain HV underground paper insulated cable**

- 1.1** Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are referred to and confirmed
- 1.2** Work plan is obtained and confirmed in accordance with workplace requirements
- 1.3** Materials required for work are determined and obtained in accordance with work plan and workplace requirements
- 1.4** Tools, equipment and personal protective equipment (PPE) required for work are determined, obtained and confirmed in working order
- 1.5** Hazards are identified, risks assessed and control measures identified and applied
- 1.6** Work is prioritised and sequenced for completion in accordance with work plan and workplace requirements
- 1.7** Worksite is prepared in accordance with work plan and workplace requirements

#### **2 Carry out jointing and terminating of HV underground paper insulated cable in new installations**

- 2.1** Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied and monitored
- 2.2** Manual handling, working in confined spaces, the use of tools, equipment and PPE are carried out in accordance with workplace requirements
- 2.3** Hazard control measures are monitored in accordance with workplace requirements

- 2.4 Cable is tested before jointing or terminating in accordance with work plan and workplace requirements
  - 2.5 Cable is prepared for jointing or terminating in accordance with the work plan and workplace requirements
  - 2.6 Cable is jointed or terminated in accordance with the work plan and workplace requirements
  - 2.7 Cable is tested after jointing or terminating in accordance with work plan and workplace requirements
  - 2.8 Incidents or unplanned events are responded to in accordance with workplace requirements
  - 2.9 Quality checks of work are undertaken in accordance with work plan and workplace requirements
- 3 Carry out maintenance of de-energised HV underground paper insulated cable**
- 3.1 Legislation, regulations, standards, codes of practice and organisational workplace requirements for the work to be performed are applied and monitored
  - 3.2 Manual handling, working in confined spaces, the use of tools, equipment and PPE are carried out in accordance with workplace requirements
  - 3.3 Hazard control measures are monitored in accordance with workplace requirements
  - 3.4 Cable is identified and spiked or cut in accordance with workplace requirements
  - 3.5 Work permit is received and signed in accordance with workplace requirements
  - 3.6 Cable is tested before maintenance in accordance with the work plan and workplace procedures
  - 3.7 Cable is prepared for maintenance in accordance with manufacturer's instructions and workplace requirements
  - 3.8 Cable is maintained in accordance with manufacturer's instructions and workplace requirements
  - 3.9 Work permits are signed off in accordance with workplace requirements

- 3.10 Cable, cable joint or termination is tested in accordance with the work plan and workplace requirements
  - 3.11 Incidents or unplanned events are responded to in accordance with workplace requirements
  - 3.12 Quality checks of work are undertaken in accordance with work plan and workplace requirements
- 4 **Complete work and documentation**
  - 4.1 Completed work is checked for compliance against the work plan and workplace requirements
  - 4.2 Incidents or unplanned events are reported in accordance with workplace requirements
  - 4.3 Worksite is rehabilitated, cleaned and made safe in accordance with workplace requirements
  - 4.4 Tools and equipment are cleaned, checked and returned to storage in accordance with workplace requirements
  - 4.5 Surplus materials are returned to storage or disposed of in accordance with workplace requirements
  - 4.6 Work records, reports and documentation are completed in accordance with workplace requirements

## 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 UET Transmission, Distribution and Rail Sector Training Package Companion Volume Implementation Guide.

## Unit Mapping Information

This unit replaces and is equivalent to UETTDRCJ23 Install and maintain de-energised high voltage underground paper insulated cables.

## Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>