



**Australian Government**

**UET30821 Certificate III in ESI -  
Distribution Underground**

**Release 2**

# UET30821 Certificate III in ESI - Distribution Underground

## Modification History

Release 2. Updated superseded Native elective units. Moved UETDRDU001 and UETDRDU017 from Group B to Group A.

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

## Qualification Description

This qualification provides the skills and knowledge to work in the electricity supply industry (ESI) as a Distribution Underground Cable Jointer.

This qualification covers the installation and maintenance of low voltage (LV) and high voltage (HV) underground cables, services and electrical equipment.

The application of the skills and knowledge described within the units in this qualification 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 qualification.

## Entry Requirements

There are no entry requirements for this qualification

## Packaging Rules

A total of **23 units** comprising:

- **18 core units** listed below; plus
- **5 elective units**

The elective units are to be chosen as follows:

- **3 elective units** selected from Group A listed below
- **2 elective units** may be selected from Group A or Group B elective units listed below, of which, 1 elective unit may be selected, with appropriate contextualisation, from a qualification in this or any other endorsed Training Package, provided the selected unit contributes to the vocational outcome of the qualification.

Where imported units are selected, care must be taken to ensure all prerequisite units specified are complied with. Prerequisites attached to any of the units must be obtained and are additional to the number of units required for the qualification.

Where a prerequisite is attached to a unit it is identified by the symbol  $\perp$ .

**Core units**

- CPCCLDG3001 Licence to perform dogging
- TLILIC0005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more)
- UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UEECD0019 Fabricate, assemble and dismantle utilities industry components  
└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UEECD0044 Solve problems in multiple path circuits  
└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace  
└ UEECD0046 Solve problems in single path circuits
- UEECD0046 Solve problems in single path circuits  
└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications  
└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UEEEL0020 Solve problems in low voltage a.c. circuits  
└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace  
└ UEEEL0021 Solve problems in magnetic and electromagnetic devices and  
└ UEECD0043 Solve problems in direct current circuits  
or  
└ UEECD0044 Solve problems in multiple path circuits  
└ UEECD0046 Solve problems in single path circuits
- UEEEL0021 Solve problems in magnetic and electromagnetic devices  
└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace  
and  
└ UEECD0043 Solve problems in direct current circuits

or

└ UEECD0044 Solve problems in multiple path circuits

└ UEECD0046 Solve problems in single path circuits

UETDRDU002 Inspect underground electrical apparatus

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

and

└ UETDREL005 Work safely in the vicinity of live electrical apparatus

or

└ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker

UETDRDU009 Install, test and verify distribution underground cable installations

└ CPCCLDG3001 Licence to perform dogging

└ TLILIC0005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more)

└ 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

└ UETDRDU002 Inspect underground electrical apparatus

└ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable

└ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable

└ UETDREL001 Apply environmental requirements

└ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus

└ UETDREL005 Work safely in the vicinity of live electrical apparatus

└ UETDRIS008 Install and maintain electrical apparatus

└ UETDRIS011 Install and maintain low voltage underground services

- UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable
- └ 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
- UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable
- └ 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
- UETDREL001 Apply environmental requirements
- UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UETDREL005 Work safely in the vicinity of live electrical apparatus
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UETDRIS008 Install and maintain electrical apparatus

└ 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

└ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus

└ UETDREL005 Work safely in the vicinity of live electrical apparatus and

└ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable

└ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable

or

└ UETDRIS007 Install and maintain distribution overhead conductors and cables

└ UETDRIS012 Install and maintain poles, structures and hardware

UETDRIS011 Install and maintain low voltage underground services

└ 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

**Group A**

- UETDRDU001 Conduct high voltage testing of underground power cable system
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ 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
  - └ UETDREL005 Work safely in the vicinity of live electrical apparatus
- UETDRDU007 Install and maintain underground public lighting
- └ 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
  - └ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus
  - └ UETDREL005 Work safely in the vicinity of live electrical apparatus
- UETDRDU010 Joint, terminate and maintain energised low voltage underground paper insulated cable
- └ 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

└ UETDRDU014 Joint, terminate and maintain low voltage underground paper insulated cable

└ UETDREL001 Apply environmental requirements

└ UETDREL005 Work safely in the vicinity of live electrical apparatus

UETDRDU011 Joint, terminate and maintain energised low voltage underground polymeric cable

└ 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

└ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable

└ UETDREL001 Apply environmental requirements

└ UETDREL005 Work safely in the vicinity of live electrical apparatus

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

└ 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



- UETDRDU014 Joint, terminate and maintain low voltage underground paper insulated cable
- └ 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
- UETDRDU016 Lay power cables
- UETDRDU017 Locate faults in underground power cables
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ 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
  - └ UETDREL005 Work safely in the vicinity of live electrical apparatus
- UETDRDU019 Transition joint high voltage paper insulated cable to high voltage polymeric cable
- └ 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
- └ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable
- └ UETDREL001 Apply environmental requirements
- └ UETDREL005 Work safely in the vicinity of live electrical apparatus

## Group B

- UETDREL003 Identify and apply controls for alternate supplies on the distribution network
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ 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
  - └ UETDRIS018 Perform low voltage field switching operation to a given schedule
- UETDRIS014 Install and replace energy meters and associated equipment
- └ 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
- UETDRIS015 Install low voltage mobile generator
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ 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
- UETDRIS017 Perform high voltage field switching operation to a given schedule
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ 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
  - └ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus
  - └ UETDREL005 Work safely in the vicinity of live electrical apparatus
  - └ UETDRIS018 Perform low voltage field switching operation to a given schedule
- UETDRIS018 Perform low voltage field switching operation to a given schedule
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ 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
- UETDRIS023 Develop and validate high voltage distribution switching programs

UETDRIS024      Develop and validate low voltage distribution switching programs

UETDRSB001      Perform substation switching operations to a given schedule

## **Qualification Mapping Information**

This qualification replaces and is equivalent to UET30819 Certificate III in ESI - Power Systems - Distribution Cable Jointing

## **Links**

Companion Volume Implementation Guides are found in VETNet -

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