



Australian Government

# **UETDRMP013 Working on energised low voltage underground electrical apparatus**

Release: 1

# UETDRMP013 Working on energised low voltage underground electrical apparatus

## 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 4.0.

## Application

This unit includes the skills and knowledge required to perform underground energised low voltage (LV) work in electricity supply industry (ESI) environment. This does not include the connection of underground services.

It includes energised LV underground mains work techniques and the use of specialised equipment in accordance with workplace requirements.

*Note: Those holding an existing Certificate III ESI - Distribution Underground qualification or equivalent, or relevant underground/cable jointing licence for energised work meet the prerequisite unit requirements.*

*Refer to the UET Transmission, Distribution and Rail Sector Training Package Companion Volume Implementation Guide for equivalency definition.*

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

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

UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable

UETDREL001 Apply environmental requirements

## UETDREL005 Work safely in the vicinity of live electrical apparatus

## Competency Field

Mobility and Portability

## Unit Sector

Not applicable.

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

**1 Prepare to work on energised LV underground electrical apparatus**

**2 Carry out work on energised LV underground electrical apparatus**

**3 Complete the work on energised LV underground electrical**

### PERFORMANCE CRITERIA

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

- 1.1** Workplace requirements for working on energised electrical apparatus are identified and confirmed
- 1.2** Hazards are identified, risks assessed, and control measures identified and applied
- 1.3** Tools, equipment, and personal protective equipment (PPE) required for energised LV work are determined, obtained and confirmed in working order
- 1.4** Safety observer is appointed in accordance with workplace requirements
- 2.1** Hazard control measures are monitored in accordance with workplace requirements
- 2.2** Use of tools, equipment and PPE for energised LV work are carried out in accordance with workplace requirements
- 2.3** Energised LV work is carried out in accordance with workplace requirements
- 3.1** Completed work is checked for compliance against workplace requirements

## **apparatus**

### **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 Companion Volume Implementation Guide.

### **Unit Mapping Information**

This is a newly created unit.

### **Links**

Companion Volume Implementation Guides are found in VETNet -

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

# **Assessment Requirements for UETDRMP013 Working on energised low voltage underground electrical apparatus**

## **Modification History**

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## **Performance Evidence**

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- identifying hazards, assessing risks and applying control measures
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- using specialised low voltage (LV) equipment including:
  - insulating mats/sleeves
  - insulating gloves
- using insulated tools
- maintaining correct body positioning to avoid secondary points of contact
- performing work on energised LV underground electrical apparatus in accordance with workplace requirements.

## **Knowledge Evidence**

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- organisational workplace requirements for work on energised LV underground electrical apparatus including:
  - energised LV work principles and techniques
  - role of safety observer
- hazard, risk assessment and risk control requirements including potential hazards
- types and application of PPE
- specialised LV equipment including:
  - types
  - application
  - care and maintenance
  - inspection and testing.

## Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so.

Where this is not appropriate, assessment must occur in simulated conditions involving realistic and authentic activities that replicate operational workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- relevant and appropriate tools, equipment and PPE currently used in industry for working on energised LV underground electrical apparatus
- applicable documentation, including workplace requirements.

## Links

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