



**Australian Government**

**UET30921 Certificate III in ESI - Very  
Remote Community Utilities**

**Release 1**

# UET30921 Certificate III in ESI - Very Remote Community Utilities

## Modification History

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

## Qualification Description

This qualification provides the skill and knowledge to work on very remote community utility systems as a remote community utilities worker in the electricity supply industry (ESI).

The qualification covers the skills and knowledge to operate, monitor and maintain generation power systems, distribution electrical network circuits and apparatus, and specialisations in power and water systems.

### Combined Specialist – Power and Water Systems

This combined specialisation covers the skills and knowledge required to work on very remote community utility power and water systems.

### Specialist – Power Systems

This specialisation covers the skills and knowledge required to install, operate, monitor and maintain distribution overhead and underground networks and customer connections. It also includes the skills and knowledge required to monitor and maintain renewable energy systems.

### Specialist – Water Systems

This specialisation covers the skills and knowledge required to install, operate, monitor and maintain water systems.

All work on power systems will be undertaken on isolated assets other than for testing purposes.

The use of support plant and equipment to perform these tasks and environmental requirements also play a part in this qualification.

**Please note: RTO to insert on the testamur, the specialisation selected from the specialist elective unit group below.**

**Very Remote Communities:** means a community with restricted access and very little accessibility of goods, services and opportunities for social interaction. Supporting information on the classification of a very remote community can be defined using the latest version of Accessibility/Remoteness Index of Australia (ARIA) (excluding mine sites).

**Isolated:** Means disconnected from all possible sources of electricity supply by means that prevent unintentional energisation of the apparatus and that are assessed as a suitable step in the process of making safe for access purposes. That is for high voltage (HV) (short-circuited and earthed) and for low voltage (LV) (short-circuited to the neutral).

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 **24 units** comprising:

### Combined Specialisation - Power and Water Systems

- **17 core units** listed below, plus
- **7 elective units** from a combination of Group A and Group B below.

### Specialisation – Power Systems

- **17 core units** listed below, plus
- **7 elective units** from Group A listed below.

### Specialisation– Water Systems

- **17 core units** listed below, plus
- **7 elective units** from Group B listed below.

Up to 1 elective unit may be selected, with appropriate contextualisation, from a qualification in this or any 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 ⊐.

### Core units

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
- UEERE0007 Conduct periodic maintenance of remote area power supply generator sets
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0019 Fabricate, assemble and dismantle utilities industry components
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UEERE0019 Maintain safety and tidiness of remote area power supply systems
  - └ UEERE0023 Work safely with remote area power supply systems and
  - └ UEECD0043 Solve problems in direct current circuits
- or
- └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
- UEERE0018 Maintain and repair remote area power generation facilities
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0019 Fabricate, assemble and dismantle utilities industry components
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UEERE0007 Conduct periodic maintenance of remote area power supply generator sets
  - └ UEERE0019 Maintain safety and tidiness of remote area power supply systems
  - └ UEERE0023 Work safely with remote area power supply systems and

- └ UEECD0043 Solve problems in direct current circuits
  - or
  - └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
- UEERE0019 Maintain safety and tidiness of remote area power supply systems
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEERE0023 Work safely with remote area power supply systems
- UEERE0023 Work safely with remote area power supply systems
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UEERE0041 Maintain operation of remote area power generation plant
- └ UEERE0018 Maintain and repair remote area power generation facilities
- 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
- UETDRRC005 Maintain, test and verify power systems in a very remote community
- └ 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
  - └ UEERE0007 Conduct periodic maintenance of remote area power supply generator sets
  - └ UEERE0018 Maintain and repair remote area power generation facilities
  - └ UEERE0019 Maintain safety and tidiness of remote area power supply systems

- └ UEERE0023 Work safely with remote area power supply systems
  - └ UEERE0041 Maintain operation of remote area power generation plant
  - └ 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
  - └ UETDRRC006 Perform low voltage electricity network switching in a very remote community
  - └ UETDRRC007 Solve problems in electrical network apparatus in a very remote community
  - └ UETDRRC008 Solve problems in low voltage electrical network circuits in a very remote community
- UETDRRC006 Perform low voltage electricity network switching in a very remote community
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ 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
- UETDRRC007 Solve problems in electrical network apparatus in a very remote community
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0046 Solve problems in single path circuits
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ 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
  - └ UETDRRC006 Perform low voltage electricity network switching in a very remote community
- UETDRRC008 Solve problems in low voltage electrical network circuits in a very remote community
- └ UEECD0007 Apply work health and safety regulations, codes and

practices in the workplace

└ UEECD0046 Solve problems in single path circuits

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

└ 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

└ UETDRRC006 Perform low voltage electricity network switching in a very remote community

└ UETDRRC007 Solve problems in electrical network apparatus in a very remote community

### **Group A: Power Systems**

UEERE0006 Conduct periodic maintenance of remote area power supply battery banks

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

└ UEECD0019 Fabricate, assemble and dismantle utilities industry components

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

└ UEERE0019 Maintain safety and tidiness of remote area power supply systems

└ UEERE0023 Work safely with remote area power supply systems and

└ UEECD0043 Solve problems in direct current circuits

or

└ UEECD0044 Solve problems in multiple path circuits

└ UEECD0046 Solve problems in single path circuits

UEERE0008 Conduct periodic maintenance of remote area power supply photovoltaic arrays

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

└ UEECD0019 Fabricate, assemble and dismantle utilities industry components

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

- └ UEERE0019 Maintain safety and tidiness of remote area power supply systems
  - └ UEERE0023 Work safely with remote area power supply systems and
  - └ UEECD0043 Solve problems in direct current circuits or
  - └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
- UEERE0009 Conduct periodic maintenance of remote area power supply wind generators
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0019 Fabricate, assemble and dismantle utilities industry components
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UEERE0019 Maintain safety and tidiness of remote area power supply systems
  - └ UEERE0023 Work safely with remote area power supply systems and
  - └ UEECD0043 Solve problems in direct current circuits or
  - └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
- UETDRDO001 Inspect overhead poles, structures and electrical apparatus
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UETDREL001 Apply environmental requirements
  - └ UETDREL005 Work safely in the vicinity of live electrical apparatus
- 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
- UETDRDU016 Lay power cables
- UETDRIS007 Install and maintain distribution overhead conductors and cables
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0019 Fabricate, assemble and dismantle utilities industry components
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ 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
  - └ UETDRIS012 Install and maintain poles, structures and hardware

- UETDRIS012      Install and maintain poles, structures and hardware
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0019 Fabricate, assemble and dismantle utilities industry components
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ 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
- UETDRRC001      Install and maintain low voltage overhead services in a very remote community
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0046 Solve problems in single path circuits
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ 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
  - └ UETDRRC006 Perform low voltage electricity network switching in a very remote community
  - └ UETDRRC007 Solve problems in electrical network apparatus in a very remote community
  - └ UETDRRC008 Solve problems in low voltage electrical network circuits in a very remote community
- UETDRRC002      Install and maintain low voltage underground services in a very remote community
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0046 Solve problems in single path circuits
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ 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

└ UETDRRC006 Perform low voltage electricity network switching in a very remote community

└ UETDRRC007 Solve problems in electrical network apparatus in a very remote community

└ UETDRRC008 Solve problems in low voltage electrical network circuits in a very remote community

UETDRRC003 Install and maintain public lighting systems in a very remote community

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

└ UEECD0019 Fabricate, assemble and dismantle utilities industry components

└ UEECD0046 Solve problems in single path circuits

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

└ 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

└ UETDRRC006 Perform low voltage electricity network switching in a very remote community

└ UETDRRC007 Solve problems in electrical network apparatus in a very remote community

└ UETDRRC008 Solve problems in low voltage electrical network circuits in a very remote community

UETDRRC004 Install and replace energy meters and associated equipment in a very remote community

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

└ UEECD0046 Solve problems in single path circuits

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

└ 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

- └ UETDRRC006 Perform low voltage electricity network switching in a very remote community
- └ UETDRRC007 Solve problems in electrical network apparatus in a very remote community
- └ UETDRRC008 Solve problems in low voltage electrical network circuits in a very remote community

### **Group B: Water Systems**

NWPCAD004	Maintain catchment and surrounding areas
NWPCAD019	Monitor and operate groundwater extraction
NWPGEN017	Apply the risk management principles of the water industry standards, guidelines and legislation
NWPGEN020	Sample and test source or drinking water
NWPGEN021	Sample and test wastewater
NWPGEN023	Use maps, plans, drawings and details
NWPGEN027	Monitor and operate pump stations
NWPNET020	Control electrical risk on metallic pipes
NWPNET036	Perform leak detection
NWPNET038	Install metering equipment
NWPNET039	Maintain and repair network assets for drinking water
NWPNET040	Maintain and repair network assets for wastewater
NWPTRT005	Monitor and operate water treatment processes
NWPTRT027	Monitor and operate wastewater treatment processes

### **Qualification Mapping Information**

This qualification replaces and is equivalent to UET30919 Certificate III in ESI - Remote Community Utilities Worker

## **Links**

Companion Volume Implementation Guides are found in VETNet -

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