



**Australian Government**

# **UET30919 Certificate III in ESI - Remote Community Utilities Worker**

**Release 1**

# UET30919 Certificate III in ESI - Remote Community Utilities Worker

## Modification History

Release 1. This is the first release of this qualification in the UEE Electrotechnology Training Package

## Qualification Description

This qualification provides the skill and knowledge to work in the electricity supply industry (ESI) as a Remote Community Utilities Worker.

This qualification covers inspecting and maintaining essential public utilities (excluding mine sites) within very remote communities. All work on essential electrical utilities will be undertaken in non-energised (dead) environments 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 job function.

**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).

**Non-energised (dead):** Means prior to the commencement of work, all electrical apparatus is to be isolated. That is for high voltage (HV) (short-circuited and earthed) and for low voltage (LV) (short-circuited to the neutral).

The skills and knowledge described within the units in this qualification may require a licence or permit to practice in the workplace.

Additional and/or other conditions may also apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing the qualification.

## Entry Requirements

There are no entry requirements for this qualification

## Packaging Rules

A total of 1060 weighting points comprising:

**700 core weighting points** listed below; **plus**

**360 general elective weighting points** from the general elective units listed below.

Choose a total of 360 **weighting points** elective units from the list below, of which between 0

and 180 **weighting points** can be taken from Group A; and between 180 and 360 **weighting points** from Group B. You may select all your elective from this group.

**Up to 180 weighting points of the general elective units Group A** may be selected, with appropriate contextualisation, from any relevant nationally endorsed Training Package or accredited course, provided selected units contribute to the vocational outcome of the qualification. Previously assigned weighting points are listed in UET Transmission, Distribution and Rail Sector Training Package Companion Volume Implementation Guide, if not listed weighting points will be 10 points.

Where imported units are selected, care must be taken to ensure that all prerequisite units specified are complied with.

Core units		Weighting Points
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE103A	Solve problems in ELV single path circuits └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE105A	Fix and secure electrotechnology equipment └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	20

UEENEEK101A	Maintain safety and tidiness of remote area power supply systems	20
	<ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEK102A Work safely with remote area power supply systems</li> </ul>	
UEENEEK102A	Work safely with remote area power supply systems	20
	<ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace</li> </ul>	
UEENEEK116A	Maintain and repair remote area power generation facilities	80
	Common Unit Group	
	<ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEK101A Maintain safety and tidiness of remote area power supply systems</li> <li>└ UEENEEK102A Work safely with remote area power supply systems</li> <li>└ UEENEEK104A Conduct periodic maintenance of remote area power supply generator sets</li> </ul>	
	Electrotechnology Pathway Group	
	<ul style="list-style-type: none"> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> </ul>	
	Remote Area Pathway Group	
	<ul style="list-style-type: none"> <li>└ UEENEEE131A Solve problems in ELV circuits for non electrical workers</li> </ul>	
UEENEEK120A	Maintain operation of remote area power generation plant	120
	<ul style="list-style-type: none"> <li>└ UEENEEK116A Maintain and repair remote area power generation facilities</li> </ul>	
UETTDREL11	Apply sustainable energy and environmental procedures	20

UETTDREL12	Operate plant and equipment near live electrical conductors and apparatus Common Unit Group └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ UETTDREL16 Working safely near live electrical apparatus	40
UETTDREL16	Working safely near live electrical apparatus	20
UETTDRLS32	Solve electrical problems in remote community network apparatus Common Unit Group └ UEENEEE103A Solve problems in ELV single path circuits └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	80
UETTDRLS33	Solve electrical problems in remote community network systems Common Unit Group └ UEENEEE103A Solve problems in ELV single path circuits └ UETTDRLS32 Solve electrical problems in remote community network apparatus └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	80
UETTDRLS99	Test and verify distribution remote area installations Common Unit Group └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UEENEEE102A Fabricate, assemble and dismantle utilities industry components └ UEENEEE103A Solve problems in ELV single path	40

## circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

└ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work

└ UEENEEK101A Maintain safety and tidiness of remote area power supply systems

└ UEENEEK102A Work safely with remote area power supply systems

└ UEENEEK116A Maintain and repair remote area power generation facilities

└ UEENEEK120A Maintain operation of remote area power generation plant

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDREL16 Working safely near live electrical apparatus

└ UETTDRLS32 Solve electrical problems in remote community network apparatus

└ UETTDRLS33 Solve electrical problems in remote community network systems

Group A: Imported and common elective units		Weighting Points
AHCMOM213	Operate and maintain chainsaws	20
CPCCLDG3001A	Licence to perform dogging	20
NWPGEN007	Sample and test drinking water	20
NWPTRT001	Operate and control water treatment processes	30
TLILIC0002	Licence to operate a vehicle loading crane (capacity 10 40 metre tonnes and above)	40
TLILIC0005	Licence to operate a boom-type elevating work platform (boom length 11 metres or more)	40
UEENEEE131A	Solve problems in ELV circuits for non electrical	40

	workers	
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
UEENEEK103A	Conduct periodic maintenance of remote area power supply battery banks	40
	└ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEK101A Maintain safety and tidiness of remote area power supply systems	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	└ UEENEEK102A Work safely with remote area power supply systems	
	└ UEENEEE131A Solve problems in ELV circuits for non electrical workers	
	OR	
	└ UEENEEE104A Solve problems in d.c. circuits	
UEENEEK104A	Conduct periodic maintenance of remote area power supply generator sets	40
	└ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEK101A Maintain safety and tidiness of remote area power supply systems	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	└ UEENEEK102A Work safely with remote area power supply systems	
	└ UEENEEE131A Solve problems in ELV circuits for non electrical workers	
	OR	
	└ UEENEEE104A Solve problems in d.c. circuits	
UEENEEK105A	Conduct periodic maintenance of remote area power supply photo voltaic arrays	40

	<ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components</li> <li>└ UEENEEK101A Maintain safety and tidiness of remote area power supply systems</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEK102A Work safely with remote area power supply systems</li> <li>└ UEENEEE131A Solve problems in ELV circuits for non electrical workers</li> </ul>	
	OR	
	└ UEENEEE104A Solve problems in d.c. circuits	
UEENEEK106A	Conduct periodic maintenance of remote area power supply wind generators	40
	<ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components</li> <li>└ UEENEEK101A Maintain safety and tidiness of remote area power supply systems</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEK102A Work safely with remote area power supply systems</li> <li>└ UEENEEE131A Solve problems in ELV circuits for non electrical workers</li> </ul>	
	OR	
	└ UEENEEE104A Solve problems in d.c. circuits	
UEENEEP024A	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply	20
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
UEENEEP026A	Conduct in-service safety testing of electrical cord connected equipment and cord assemblies	20
	└ UEENEEE101A Apply Occupational Health and	



Safety regulations, codes and practices in the workplace

## Group B: General elective units

## Weighting Points

UETTDRCJ21	<p>Lay ESI electrical cables</p> <p>Common Unit Group</p> <p>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</p> <p>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>└ UETTDREL11 Apply sustainable energy and environmental procedures</p> <p>└ UETTDREL16 Working safely near live electrical apparatus</p>	20
UETTDRCJ26	<p>Install and maintain de-energised low voltage underground polymeric cables</p> <p>Common Unit Group</p> <p>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</p> <p>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</p> <p>└ UEENEEE105A Fix and secure electrotechnology equipment</p> <p>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>└ UETTDRCJ21 Lay ESI electrical cables</p> <p>└ UETTDREL11 Apply sustainable energy and environmental procedures</p> <p>└ UETTDREL16 Working safely near live electrical apparatus</p>	50
UETTDRCJ27	<p>Install and maintain de-energised high voltage underground polymeric cables</p> <p>Common Unit Group</p> <p>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</p>	50

	<ul style="list-style-type: none"> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE105A Fix and secure electrotechnology equipment</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UETTDRCJ21 Lay ESI electrical cables</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> </ul>	
UETTDROP11	<p>Inspect overhead poles-structures and electrical apparatus</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> </ul>	50
UETTDRI34	<p>Install and replace energy meters and associated equipment in remote communities</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE105A Fix and secure electrotechnology equipment</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work</li> <li>└ UEENEEK101A Maintain safety and tidiness of</li> </ul>	50

	remote area power supply systems	
	└ UEENEEK102A Work safely with remote area power supply systems	
	└ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
UETTDRI35	Perform remote community network field switching to a given schedule	40
	Common Unit Group	
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	└ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work	
	└ UEENEEK101A Maintain safety and tidiness of remote area power supply systems	
	└ UEENEEK102A Work safely with remote area power supply systems	
	└ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
UETTDRI36	Install and maintain low voltage services in remote communities (overhead)	40
	Common Unit Group	
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	└ UEENEEE103A Solve problems in ELV single path circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams,	

schedules, standards, codes and specifications

└ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work

└ UEENEEK101A Maintain safety and tidiness of remote area power supply systems

└ UEENEEK102A Work safely with remote area power supply systems

└ UEENEEK116A Maintain and repair remote area power generation facilities

└ UEENEEK120A Maintain operation of remote area power generation plant

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDREL16 Working safely near live electrical apparatus

└ UETTDRLS32 Solve electrical problems in remote community network apparatus

└ UETTDRLS33 Solve electrical problems in remote community network systems

└ UETTDRLS99 Test and verify distribution remote area installations

UETTDRLS37      Install and maintain low voltage services in remote communities (underground)      40

Common Unit Group

└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

└ UEENEEE103A Solve problems in ELV single path circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

└ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work

- └ UEENEEK101A Maintain safety and tidiness of remote area power supply systems
- └ UEENEEK102A Work safely with remote area power supply systems
- └ UEENEEK116A Maintain and repair remote area power generation facilities
- └ UEENEEK120A Maintain operation of remote area power generation plant
- └ UETTDREL11 Apply sustainable energy and environmental procedures
- └ UETTDREL16 Working safely near live electrical apparatus
- └ UETTDRLS32 Solve electrical problems in remote community network apparatus
- └ UETTDRLS33 Solve electrical problems in remote community network systems
- └ UETTDRLS99 Test and verify distribution remote area installations

UETTDRLS38      Install and maintain public lighting systems in remote communities      40

Common Unit Group

- └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
- └ UEENEEE102A Fabricate, assemble and dismantle utilities industry components
- └ UEENEEE103A Solve problems in ELV single path circuits
- └ UEENEEE105A Fix and secure electrotechnology equipment
- └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- └ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work
- └ UEENEEK101A Maintain safety and tidiness of remote area power supply systems
- └ UEENEEK102A Work safely with remote area power supply systems

	<ul style="list-style-type: none"> <li>└ UEENEEK116A Maintain and repair remote area power generation facilities</li> <li>└ UEENEEK120A Maintain operation of remote area power generation plant</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTDRLS32 Solve electrical problems in remote community network apparatus</li> <li>└ UETTDRLS33 Solve electrical problems in remote community network systems</li> <li>└ UETTDRLS99 Test and verify distribution remote area installations</li> </ul>	
UETTDRLS52	<p>Install and maintain poles, structures and associated hardware</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE105A Fix and secure electrotechnology equipment</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> </ul>	50
UETTDRLS54	<p>Install and maintain poles, structures and overhead conductors and cables</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE105A Fix and secure electrotechnology</li> </ul>	60

equipment

└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDREL16 Working safely near live electrical apparatus

UETTDRI55 Install and maintain low voltage underground services 40

Electrotechnology Electrician

Common Unit Group

└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

└ UEENEEE104A Solve problems in d.c. circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

└ UEENEEG102A Solve problems in low voltage a.c. circuits

└ UETTDREL16 Working safely near live electrical apparatus

Transmission Overhead Pathway Group

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus

└ UETTDRI54 Install and maintain poles, structures and overhead conductors and cables

└ UETTD RTP26 Install transmission structures and associated hardware

└ UETTD RTP27 Maintain transmission structures and associated hardware

└ UETTD RTP29 Install and maintain transmission

overhead conductors and cables

#### Distribution Overhead Pathway Group

└ UETTDROP12 Maintain overhead energised low voltage conductors and cables

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus

└ UETTDRI41 Install network infrastructure electrical equipment

└ UETTDRI42 Maintain network infrastructure electrical equipment

└ UETTDRI52 Install and maintain poles, structures and associated hardware

└ UETTDRI54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRI56 Install and maintain low voltage overhead services

#### Rail Traction Pathway Group

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus

└ UETTDRI52 Install and maintain poles, structures and associated hardware

└ UETTDRI54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRT21 Install traction overhead wiring systems

└ UETTDRT22 Maintain traction overhead wiring systems

└ UETTDRT23 Install rail traction bonds

└ UETTDRT27 Install overhead traction components and equipment

└ UETTDRT28 Maintain overhead traction components and equipment

#### Distribution Cable Jointing Pathway Group

└ UETTDRCJ21 Lay ESI electrical cables

└ UETTDRCJ26 Install and maintain de-energised



low voltage underground polymeric cables

└ UETTDRCJ27 Install and maintain de-energised  
high voltage underground polymeric cables

└ UETTDREL11 Apply sustainable energy and  
environmental procedures

└ UETTDREL12 Operate plant and equipment near  
live electrical conductors and apparatus

Electrotechnology Electrician Pathway Group

└ UEENEEE137A Document and apply measures to  
control OHS risks associated with electrotechnology  
work

└ UEENEEG006A Solve problems in single and three  
phase low voltage machines

└ UEENEEG033A Solve problems in single and three  
phase low voltage electrical apparatus and circuits

└ UEENEEG063A Arrange circuits, control and  
protection for general electrical installations

└ UEENEEG106A Terminate cables, cords and  
accessories for low voltage circuits

└ UEENEEG108A Trouble-shoot and repair faults in  
low voltage electrical apparatus and circuits

└ UEENEEG109A Develop and connect electrical  
control circuits

└ UEENEEK142A Apply environmentally and  
sustainable procedures in the energy sector

└ UETTDRI67 Solve problems in energy supply  
network equipment

## Qualification Mapping Information

This qualification replaces and is equivalent to UET30912 Certificate III in ESI - Remote Community Utilities Worker

## Links

Companion Volume Implementation Guides are found in VETNet -

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