



**Australian Government**

# **UEP20222 Certificate II in Remote Area Essential Service**

**Release 2**

# UEP20222 Certificate II in Remote Area Essential Service

## Modification History

**Release 2.** This is the second release of this qualification in the UEP Electricity Supply Industry - Generation Sector Training Package. With the following change:

- Minor change to Packaging Rules.

**Release 1.** This is the first release of this qualification in the UEP - Electricity Supply Industry - Generation Sector Training Package.

## Qualification Description

This qualification covers the skills and knowledge required to perform operations in remote area essential services in the electrical supply industry (ESI). Functions include selecting, assembling, setting up and maintaining simple equipment and systems following prescribed workplace procedures and routines, including observing safe working practices.

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

## Entry Requirements

There are no entry requirements for this qualification.

## Packaging Rules

A total of **14 units of Competency** comprising:

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

Where imported unit is 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 unit is attached to a unit, it is identified by this symbol L.

## 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
- UEERE0001 Apply environmentally and sustainable procedures in the energy sector
- 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
- UEGNSG710 Read and record meter readings
- UEPOPS044 Liaise with stakeholders
- UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker

### Group A Elective Units

- BSBOPS203 Deliver a service to customers
- FBPSUG2022 Operate a waste water treatment system
- MEM05007 Perform manual heating and thermal cutting  
└ MEM09002 Interpret technical drawing  
└ MEM11011 Undertake manual handling  
└ MEM12023 Perform engineering measurements  
└ MEM13015 Work safely and effectively in manufacturing and engineering  
└ MEM16006 Organise and communicate information
- MEM05012 Perform routine manual metal arc welding  
└ MEM11011 Undertake manual handling  
└ MEM13015 Work safely and effectively in manufacturing and engineering  
└ MEM16006 Organise and communicate information
- MEM09002 Interpret technical drawing

	<ul style="list-style-type: none"><li>└ MEM12023 Perform engineering measurements</li><li>└ MEM12024 Perform computations</li><li>└ MEM13015 Work safely and effectively in manufacturing and engineering</li><li>└ MEM16006 Organise and communicate information</li></ul>
MEM11011	Undertake manual handling <ul style="list-style-type: none"><li>└ MEM13015 Work safely and effectively in manufacturing and engineering</li><li>└ MEM16006 Organise and communicate information</li></ul>
MEM12023	Perform engineering measurements <ul style="list-style-type: none"><li>└ MEM13015 Work safely and effectively in manufacturing and engineering</li><li>└ MEM16006 Organise and communicate information</li></ul>
MEM12024	Perform computations <ul style="list-style-type: none"><li>└ MEM13015 Work safely and effectively in manufacturing and engineering</li><li>└ MEM16006 Organise and communicate information</li></ul>
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information <ul style="list-style-type: none"><li>└ MEM13015 Work safely and effectively in manufacturing and engineering</li></ul>
NWPCAD002	Control vegetation on a site
NWPCAD004	Maintain catchment and surrounding areas
NWPCAD019	Monitor and operate groundwater extraction
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
NWPNET019	Prepare and restore worksite
NWPNET040	Maintain and repair network assets for wastewater

NWPNET051	Monitor and operate water distribution systems
NWPTRT005	Monitor and operate water treatment processes
NWPTRT006	Monitor and operate fluoride addition processes
NWPTRT022	Monitor and operate hypochlorite disinfection processes
NWPTRT027	Monitor and operate wastewater treatment processes
NWPTRT047	Monitor, operate and control lagoon processes
UEECD0008	Carry out preparatory energy sector work activities └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0016	Document and apply measures to control WHS risks associated with electrotechnology work └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0020	Fix and secure electrotechnology equipment └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0020	Fix and secure electrotechnology equipment └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0025	Lay wiring/cabbling and terminate accessories for extra-low voltage (ELV) circuits └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0020 Fix and secure electrotechnology equipment └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEECD0035	Provide basic instruction in the use of electrotechnology apparatus
UEECD0043	Solve problems in direct current circuits └ 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
UEECD0051	Use drawings, diagrams, schedules, standards, codes and specifications
	└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECO0002	Maintain documentation
UEECO0016	Receive and store materials and equipment for electrotechnology work
UEECO0017	Source and purchase material/parts for installation or service jobs
UEEEL0023	Terminate cables, cords and accessories for low voltage circuits
	└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
	└ UEECD0019 Fabricate, assemble and dismantle utilities industry components
	└ UEECD0020 Fix and secure electrotechnology equipment
	└ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
	and
	└ UEECD0043 Solve problems in direct current circuits
	or
	└ UEECD0044 Solve problems in multiple path circuits
	└ UEECD0046 Solve problems in single path circuits
UEERE0002	Assemble and connect remote area power supplies
	└ 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

- └ UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits
  - or
  - └ UEECD0043 Solve problems in direct current circuits
  - or
  - └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
- 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
  - └ UEERE0019 Maintain safety and tidiness of remote area power supply systems
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UEERE0023 Work safely with remote area power supply systems
  - or
  - └ UEECD0043 Solve problems in direct current circuits
  - or
  - └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
- 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
  - └ UEERE0019 Maintain safety and tidiness of remote area power supply systems
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UEERE0023 Work safely with remote area power supply systems
  - or
  - └ 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
  - └ UEERE0019 Maintain safety and tidiness of remote area power supply systems
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UEERE0023 Work safely with remote area power supply systems
- or
- └ 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
  - └ UEERE0019 Maintain safety and tidiness of remote area power supply systems
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UEERE0023 Work safely with remote area power supply systems
- or
- └ UEECD0043 Solve problems in direct current circuits
- or
- └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
- UEERE0017 Maintain and repair facilities associated with remote area essential service operations
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace



- └ UEECD0019 Fabricate, assemble and dismantle utilities industry components
  - 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
  - └ UEERE0019 Maintain safety and tidiness of remote area power supply systems
  - └ UEERE0023 Work safely with remote area power supply systems
  - └ UEERE0007 Conduct periodic maintenance of remote area power supply generator sets
- and
- └ UEECD0043 Solve problems in direct current circuits
  - or
  - └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
- UEERE0020 Promote sustainable energy practices in the community
- UEERE0021 Provide basic sustainable energy solutions for energy reduction in residential premises
- UEERE0025 Carry out basic repairs to renewable energy (RE) apparatus
- └ UEECD0043 Solve problems in direct current circuits
  - or
  - └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
- and
- └ UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits

	or
	└ UEEEL0023 Terminate cables, cords and accessories for low voltage circuits
UEERE0040	Maintain and monitor remote area essential service operations
	└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
	└ UEERE0023 Work safely with remote area power supply systems
UEERE0041	Maintain operation of remote area power generation plant
	└ UEERE0018 Maintain and repair remote area power generation facilities
UEERL0001	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply
	└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERL0003	Conduct in-service safety testing of electrical cord connected equipment and cord assemblies
	└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEGNSG709	Process meter reading information using appropriate technology
UEPOPS009	Conduct minor electrical maintenance
UEPOPS010	Conduct minor mechanical maintenance
UEPOPS018	Conduct water conveyance and control
UEPOPS078	Operate and monitor an internal combustion dual fuel reciprocating engine
UEPOPS079	Operate and monitor an internal combustion single fuel reciprocating engine
UEPOPS096	Operate and monitor fuel supply
UEPOPS099	Operate and monitor generator/alternator
UEPOPS109	Operate and monitor water quality monitoring systems
UEPOPS111	Operate and monitor water treatment plant
UEPOPS116	Operate local H.V. switchgear
UEPOPS117	Operate local L.V. switchgear
UEPOPS119	Operate waste and contaminated water plant

- UEPOPS145 Undertake local systems operations
- 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
- 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
- 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
- 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

## Qualification Mapping Information

This qualification replaces and is not equivalent to UEP20218 Certificate II in Remote Area Essential Service

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>