



Australian Government

UET40619 Certificate IV in ESI - Power Systems Network Infrastructure

Release 2

UET40619 Certificate IV in ESI - Power Systems Network Infrastructure

Modification History

Release 2. Removed deleted units UETDRRT34, UETDRRT35, UETDRRT36 and UETDRRT37 from the qualification due to zero enrolments.

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

Qualification Description

This qualification provides the skills and knowledge to work on power system network infrastructure in the electricity supply industry (ESI).

This qualification covers the selection, installation, set up, testing, fault finding, repair and maintenance of electrical systems and equipment in buildings and premises. It includes skills and knowledge needed for a career in installation and maintenance of network infrastructure in the transmission, distribution or rail traction in the electricity supply industry.

It includes Electrical Regulatory Authorities Council (ERAC) requirements for an Electrician's licence. Competency development activities in this qualification are subject to regulations directly related to licencing.

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 licencing 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 **1280 weighting points** comprising:

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

340 general elective weighting points from the general elective units listed below.

Choose a total of **340 weighting points** elective units from the list below, of which between 0 and 50 **weighting points** can be taken from Group A; between 0 and 140 **weighting points** can be taken from Group B; and between 200 and 340 **weighting points** taken from Group C. You may select all your electives from this group.

Up to 50 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 all prerequisite units specified are complied with.

		Weighting Points
Core units		
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
UEENEEE104A	Solve problems in d.c. circuits └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	80
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
UEENEEG006A	Solve problems in single and three phase low voltage machines └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components	80

- └ 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. circuit
 - └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
- UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits 60
- └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
 - └ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology 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. circuit
 - └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
- UEENEEG063A Arrange circuits, control and protection for general electrical installations 40
- └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
 - └ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology 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. circuit	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE104A Solve problems in d.c. circuits	
UEENEEG102A	Solve problems in low voltage a.c. circuits	80
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE104A Solve problems in d.c. circuits	
	└ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
UEENEEG103A	Install low voltage wiring and accessories	20
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components	
	└ UEENEEE104A Solve problems in d.c. 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	
	└ UEENEEG006A Solve problems in single and three phase low voltage machines	
	└ UEENEEG033A Solve problems in single and three phase electrical apparatus and circuits	
	└ UEENEEG063A Arrange circuits, control and protection for general electrical installations	
	└ UEENEEG101A Solve problems in electromagnetic	

devices and related circuits

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

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

└ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations

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

└ UEENEEG109A Develop and connect electrical control circuits

UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations 20

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

└ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components

└ UEENEEE104A Solve problems in d.c. 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

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

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

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

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG103A Install low voltage wiring and accessories

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

- └ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations
 - └ UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits
 - └ UEENEEG109A Develop and connect electrical control circuits
- UEENEEG105A Verify compliance and functionality of low voltage general electrical installations 40
- └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
 - └ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components
 - └ UEENEEE104A Solve problems in d.c. 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
 - └ UEENEEG006A Solve problems in single and three phase low voltage machines
 - └ UEENEEG033A Solve problems in single and three phase electrical apparatus and circuits
 - └ UEENEEG063A Arrange circuits, control and protection for general electrical installations
 - └ UEENEEG101A Solve problems in electromagnetic devices and related circuits
 - └ UEENEEG102A Solve problems in low voltage a.c. circuit
 - └ UEENEEG103A Install low voltage wiring and accessories
 - └ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations
 - └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
 - └ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations

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

└ UEENEEG109A Develop and connect electrical control circuits

Conditions: Those holding an 'Unrestricted Electrician's Licence' or equivalent issued in an Australian State or Territory meet the requirements of this unit and its prerequisite requirements.

A 'licensed electrician' applying for an 'electrical contractors licence' may be required to undertake this unit to demonstrate their currency with verification of compliance requirements. In this case they are deemed to have met the prerequisites for this unit provided that: they hold a current 'electricians licence' or its equivalent issued in an Australian State or Territory and have recently been in permanent employment as a licensed electrician sufficient to evidence current knowledge of applicable standards and regulations.

UEENEEG106A Terminate cables, cords and accessories for low voltage circuits 40

└ 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

UEENEEG107A Select wiring systems and cables for low voltage general electrical installations 60

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

└ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components

└ UEENEEE104A Solve problems in d.c. circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

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

└ UEENEEG006A Solve problems in single and three

- phase low voltage machines
- └ UEENEEG033A Solve problems in single and three phase electrical apparatus and circuits
 - └ UEENEEG063A Arrange circuits, control and protection for general electrical installations
 - └ UEENEEG101A Solve problems in electromagnetic devices and related circuits
 - └ UEENEEG102A Solve problems in low voltage a.c. circuit
 - └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
- UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits 40
- └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
 - └ UEENEEE102A Fabricate, dismantle, assemble of utilities components
 - └ UEENEEE104A Solve problems in d.c. circuits
 - └ UEENEEE105A Fix and secure electrotechnology equipment
 - └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
 - └ UEENEEG006A Solve problems in single and three phase low voltage machines
 - └ UEENEEG033A Solve problems in single and three phase electrical apparatus and circuits
 - └ UEENEEG063A Arrange circuits, control and protection for general electrical installations
 - └ UEENEEG101A Solve problems in electromagnetic devices and related circuits
 - └ UEENEEG102A Solve problems in low voltage a.c. circuits
 - └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
- UEENEEG109A Develop and connect electrical control circuits 80
- └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
 - └ UEENEEE102A Fabricate, dismantle, assemble of

	electrotechnology components	
	└ UEENEEE104A Solve problems in d.c. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	└ UEENEEG006A Solve problems in single and three phase low voltage machines	
	└ UEENEEG063A Arrange circuits, control and protection for general electrical installations	
	└ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	└ UEENEEG102A Solve problems in low voltage a.c. circuit	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEENEEK142A	Apply environmentally and sustainable procedures in the energy sector	20
UETTDREL16	Working safely near live electrical apparatus	20
UETTDRLS62	Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	30
	Common Unit Group	
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UETTDREL16 Working safely near live electrical apparatus	
UETTDRLS63	Implement & monitor power system environmental & sustainable energy management policies & procedures	30
	Electrotechnology Pathway Unit Group	
	└ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector	
	ESI - TDR Pathway Unit Group	
	└ UETTDREL11 Apply sustainable energy and environmental procedures	

Group A: Imported and common elective units**Weighting Points**

BSBINM401	Implement workplace information system	40
BSBLDR402	Lead effective workplace relationships	50
BSBLDR403	Lead team effectiveness	50
BSBMGT402	Implement operational plan	40
BSBMGT403	Implement continuous improvement	40

Group B: Qualification elective units**Weighting Points**

UEENEEG171A	Install, set up and commission interval metering	20
	<ul style="list-style-type: none"> └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components └ UEENEEE104A Solve problems in d.c. 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 └ UEENEEG006A Solve problems in single and three phase low voltage machines └ UEENEEG033A Solve problems in single and three phase electrical apparatus and circuits └ UEENEEG063A Arrange circuits, control and protection for general electrical installations └ UEENEEG101A Solve problems in electromagnetic devices and related circuits └ UEENEEG102A Solve problems in low voltage a.c. circuit └ UEENEEG103A Install low voltage wiring and accessories └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits └ UEENEEG107A Select wiring systems and cables for 	

low voltage general electrical installations

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

└ UEENEEG109A Develop and connect electrical control circuits

└ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations

UETTDNIS43 Perform low voltage field switching operation to a given schedule 50

Electrical

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

└ UETTDNIS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRTTP26 Install transmission structures and associated hardware

└ UETTDRTTP27 Maintain transmission structures and associated hardware

└ UETTDRTTP29 Install and maintain transmission

overhead conductors and cables

Distribution Overhead Pathway Group

- └ UETTDREL11 Apply sustainable energy and environmental procedures
- └ UETTDSDP12 Maintain overhead energised low voltage conductors and cables
- └ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus
- └ UETTDSDRIS41 Install network infrastructure electrical equipment
- └ UETTDSDRIS42 Maintain network infrastructure electrical equipment
- └ UETTDSDRIS52 Install and maintain poles, structures and associated hardware
- └ UETTDSDRIS54 Install and maintain poles, structures and overhead conductors and cables
- └ UETTDSDRIS56 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
- └ UETTDSDRIS52 Install and maintain poles, structures and associated hardware
- └ UETTDSDRIS54 Install and maintain poles, structures and overhead conductors and cables
- └ UETTDSDRRT21 Install traction overhead wiring systems
- └ UETTDSDRRT22 Maintain traction overhead wiring systems
- └ UETTDSDRRT23 Install rail traction bonds
- └ UETTDSDRRT27 Install overhead traction components and equipment
- └ UETTDSDRRT28 Maintain overhead traction components and equipment

Distribution Cable Jointing Pathway Group

- └ UETTDREL11 Apply sustainable energy and environmental procedures

- └ 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
- └ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus
- └ UETTDRLS41 Install network infrastructure electrical equipment
- └ UETTDRLS42 Maintain network infrastructure electrical equipment
- └ UETTDRLS55 Install and maintain low voltage underground services

Electrical 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
- └ UETTDRLS67 Solve problems in energy supply network equipment

UETTDRLS44 Perform HV field switching operation to a given schedule 50

Electrical

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

└ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRTTP26 Install transmission structures and associated hardware

└ UETTDRTTP27 Maintain transmission structures and associated hardware

└ UETTDRTTP29 Install and maintain transmission overhead conductors and cables

Distribution Overhead Pathway Group

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDRLDP12 Maintain overhead energised low voltage conductors and cables

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

└ UETTDRLS41 Install network infrastructure electrical equipment

└ UETTDRLS42 Maintain network infrastructure electrical equipment

└ UETTDRLS52 Install and maintain poles, structures and associated hardware

└ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRLS56 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

└ UETTDRLS52 Install and maintain poles, structures and associated hardware

└ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRLT21 Install traction overhead wiring systems

└ UETTDRLT22 Maintain traction overhead wiring systems

└ UETTDRLT23 Install rail traction bonds

└ UETTDRLT27 Install overhead traction components and equipment

└ UETTDRLT28 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

└ UETTDRLS41 Install network infrastructure electrical equipment

└ UETTDRLS42 Maintain network infrastructure electrical equipment

└ UETTDRLS55 Install and maintain low voltage underground services

Electrical 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
- └ UETTDRIS67 Solve problems in energy supply network equipment

UETTDRIS47	<p>Sample, test, filter and reinstate insulating oil</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> └ 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 └ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work └ UEENEEG006A Solve problems in single and three phase low voltage machines └ UEENEEG101A Solve problems in electromagnetic devices and related circuits └ UEENEEG102A Solve problems in low voltage a.c. circuits 	40
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	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
	└ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector	
	└ UETTDREL16 Working safely near live electrical apparatus	
UETTD RIS67	Solve problems in energy supply network equipment Common Unit Group	80
	└ 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	
	└ UEENEEG006A Solve problems in single and three phase low voltage machines	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UETTD RIS68	Solve problems in energy supply network protection equipment and systems Common Unit Group	40
	└ 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

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

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

└ UETTDRIS67 Solve problems in energy supply network equipment

UETTDRSB39 Perform power system substation switching operation to a given schedule 50

Electrical

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

└ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRTP26 Install transmission structures and associated hardware

└ UETTDRTP27 Maintain transmission structures and

associated hardware

└ UETTDRT29 Install and maintain transmission overhead conductors and cables

Distribution Overhead Pathway Group

└ UETTDTRDP12 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

└ UETTDTRIS41 Install network infrastructure electrical equipment

└ UETTDTRIS42 Maintain network infrastructure electrical equipment

└ UETTDTRIS52 Install and maintain poles, structures and associated hardware

└ UETTDTRIS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDTRIS56 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

└ UETTDTRIS52 Install and maintain poles, structures and associated hardware

└ UETTDTRIS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDTRRT21 Install traction overhead wiring systems

└ UETTDTRRT22 Maintain traction overhead wiring systems

└ UETTDTRRT23 Install rail traction bonds

└ UETTDTRRT27 Install overhead traction components and equipment

└ UETTDTRRT28 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
 - └ UETTDRLS41 Install network infrastructure electrical equipment
 - └ UETTDRLS42 Maintain network infrastructure electrical equipment
 - └ UETTDRLS55 Install and maintain low voltage underground services
- Electrical 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
 - └ UETTDRLS67 Solve problems in energy supply network equipment

Group C: Qualification elective units

Weighting Points

UEENEEG076A	Install and replace low voltage current transformer metering	20
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Note: Those holding an 'Unrestricted Electrician's Licence' or equivalent issued in an Australian State or Territory meet the prerequisite requirements of this unit.

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

└ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components

└ UEENEEE104A Solve problems in d.c. 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

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

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

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

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG103A Install low voltage wiring and accessories

└ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations

└ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations

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

└ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations

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

└ UEENEEG109A Develop and connect electrical control circuits

UETTDRCJ33	Install and maintain network infrastructure LV underground cables	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	
	└ UEENEEE104A Solve problems in d.c. 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	
	└ 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	
	└ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	└ UEENEEG102A Solve problems in low voltage a.c. circuits	
	└ UEENEEG103A Install low voltage wiring and accessories	
	└ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations	
	└ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
	└ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations	
	└ 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

└ UETTDREL16 Working safely near live electrical apparatus

└ UETTDRLS46 Install and maintain ESI network infrastructure electrical equipment

└ UETTDRLS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

└ UETTDRLS63 Implement & monitor power system environmental & sustainable energy management policies & procedures

UETTDRCJ34 Install and maintain network infrastructure HV underground cables 50

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

└ 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

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

└ UEENEEG102A Solve problems in low voltage a.c.

circuits

└ UEENEEG103A Install low voltage wiring and accessories

└ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations

└ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations

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

└ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations

└ 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

└ UETTDRCJ33 Install and maintain network infrastructure LV underground cables

└ UETTDREL16 Working safely near live electrical apparatus

└ UETTDRLS46 Install and maintain ESI network infrastructure electrical equipment

└ UETTDRLS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

└ UETTDRLS63 Implement & monitor power system environmental & sustainable energy management policies & procedures

UETTDRLS15 Inspect, maintain and restore energised low voltage overhead distribution network infrastructure 50

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

└ 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

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG103A Install low voltage wiring and accessories

└ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations

└ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations

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

└ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations

└ 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

└ UETTDREL16 Working safely near live electrical apparatus

└ UETTDRLS46 Install and maintain ESI network infrastructure electrical equipment

└ UETTDRLS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

- └ UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures
 - └ UETTDRIS67 Solve problems in energy supply network equipment
- UETTDRIS46 Install and maintain ESI network infrastructure electrical equipment 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
 - └ UEENEEE104A Solve problems in d.c. 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
 - └ 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
 - └ UEENEEG101A Solve problems in electromagnetic devices and related circuits
 - └ UEENEEG102A Solve problems in low voltage a.c. circuits
 - └ UEENEEG103A Install low voltage wiring and accessories
 - └ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations
 - └ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations
 - └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

	<ul style="list-style-type: none"> └ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations └ 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 └ UETTDREL16 Working safely near live electrical apparatus └ UETTDREL62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs └ UETTDREL63 Implement & monitor power system environmental & sustainable energy management policies & procedures 	
UETTDREL48	<p>Develop high voltage switching schedule</p> <p>Electrical</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> └ 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 └ UETTDREL44 Perform HV field switching operation to a given schedule <p>Transmission Overhead Pathway Group</p> <ul style="list-style-type: none"> └ UETTDREL11 Apply sustainable energy and environmental procedures 	40

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

└ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRT26 Install transmission structures and associated hardware

└ UETTDRT27 Maintain transmission structures and associated hardware

└ UETTDRT29 Install and maintain transmission overhead conductors and cables

Distribution Overhead Pathway Group

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDRLD12 Maintain overhead energised low voltage conductors and cables

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

└ UETTDRLS41 Install network infrastructure electrical equipment

└ UETTDRLS42 Maintain network infrastructure electrical equipment

└ UETTDRLS52 Install and maintain poles, structures and associated hardware

└ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRLS56 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

└ UETTDRLS52 Install and maintain poles, structures and associated hardware

└ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRLT21 Install traction overhead wiring systems

└ UETTDRLT22 Maintain traction overhead wiring

systems

└ UETDDRRT23 Install rail traction bonds

└ UETDDRRT27 Install overhead traction components and equipment

└ UETDDRRT28 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

└ UETTDNIS41 Install network infrastructure electrical equipment

└ UETTDNIS42 Maintain network infrastructure electrical equipment

└ UETTDNIS55 Install and maintain low voltage underground services

Electrical 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	
	└ UETTDNIS67 Solve problems in energy supply network equipment	
UETTDNIS49	Develop low voltage switching schedule	40
	Electrical	
	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	
	└ UETTDNIS43 Perform low voltage field switching operation to a given schedule	
	Transmission Overhead Pathway Group	
	└ UETTDREL11 Apply sustainable energy and environmental procedures	
	└ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
	└ UETTDNIS54 Install and maintain poles, structures and overhead conductors and cables	
	└ UETTDRTTP26 Install transmission structures and associated hardware	
	└ UETTDRTTP27 Maintain transmission structures and associated hardware	
	└ UETTDRTTP29 Install and maintain transmission overhead conductors and cables	
	Distribution Overhead Pathway Group	
	└ UETTDREL11 Apply sustainable energy and	

environmental procedures

└ UETTD RDP12 Maintain overhead energised low voltage conductors and cables

└ UETTD REL12 Operate plant and equipment near live electrical conductors and apparatus

└ UETTD RIS41 Install network infrastructure electrical equipment

└ UETTD RIS42 Maintain network infrastructure electrical equipment

└ UETTD RIS52 Install and maintain poles, structures and associated hardware

└ UETTD RIS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTD RIS56 Install and maintain low voltage overhead services

Rail Traction Pathway Group

└ UETTD REL11 Apply sustainable energy and environmental procedures

└ UETTD REL12 Operate plant and equipment near live electrical conductors and apparatus

└ UETTD RIS52 Install and maintain poles, structures and associated hardware

└ UETTD RIS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTD RRT21 Install traction overhead wiring systems

└ UETTD RRT22 Maintain traction overhead wiring systems

└ UETTD RRT23 Install rail traction bonds

└ UETTD RRT27 Install overhead traction components and equipment

└ UETTD RRT28 Maintain overhead traction components and equipment

Distribution Cable Jointing Pathway Group

└ UETTD REL11 Apply sustainable energy and environmental procedures

└ UETTD RCJ21 Lay ESI electrical cables

└ UETTD RCJ26 Install and maintain de-energised low voltage underground polymeric cables

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

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

└ UETTDRIS41 Install network infrastructure electrical equipment

└ UETTDRIS42 Maintain network infrastructure electrical equipment

└ UETTDRIS55 Install and maintain low voltage underground services

Electrical 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

└ UETTDRIS67 Solve problems in energy supply network equipment

UETTDRIS50 Coordinate power system permit procedures 40

Electrical

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

└ UETTDRLS44 Perform HV field switching operation to a given schedule

└ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRLS26 Install transmission structures and associated hardware

└ UETTDRLS27 Maintain transmission structures and associated hardware

└ UETTDRLS29 Install and maintain transmission overhead conductors and cables

Distribution Overhead Pathway Group

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDRLS12 Maintain overhead energised low voltage conductors and cables

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

└ UETTDRLS41 Install network infrastructure electrical equipment

└ UETTDRLS42 Maintain network infrastructure electrical equipment

└ UETTDRLS43 Perform low voltage field switching operation to a given schedule

└ UETTDRLS52 Install and maintain poles, structures and associated hardware

└ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRLS56 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

└ UETTDRLS52 Install and maintain poles, structures and associated hardware

└ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRLT21 Install traction overhead wiring systems

└ UETTDRLT22 Maintain traction overhead wiring systems

└ UETTDRLT23 Install rail traction bonds

└ UETTDRLT27 Install overhead traction components and equipment

└ UETTDRLT28 Maintain overhead traction components and equipment

└ UETTDRLT30 Perform to a given schedule rail traction switching operations

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

└ UETTDRLS41 Install network infrastructure electrical equipment

└ UETTDRLS42 Maintain network infrastructure electrical equipment

└ UETTDRLS43 Perform low voltage field switching

operation to a given schedule

└ UETTDRIS55 Install and maintain low voltage underground services

Electrical 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

└ UETTDRIS67 Solve problems in energy supply network equipment

└ UETTDRSB39 Perform power system substation switching operation to a given schedule

UETTDRIS51 Coordinate and direct power system switching schedules 40

Electrical

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

└ UETTDRLS44 Perform HV field switching operation to a given schedule

└ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRLTP26 Install transmission structures and associated hardware

└ UETTDRLTP27 Maintain transmission structures and associated hardware

└ UETTDRLTP29 Install and maintain transmission overhead conductors and cables

Distribution Overhead Pathway Group

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDRLDP12 Maintain overhead energised low voltage conductors and cables

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

└ UETTDRLS41 Install network infrastructure electrical equipment

└ UETTDRLS42 Maintain network infrastructure electrical equipment

└ UETTDRLS43 Perform low voltage field switching operation to a given schedule

└ UETTDRLS52 Install and maintain poles, structures and associated hardware

└ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables

└ UETTDRLS56 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
- └ UETTDRLS52 Install and maintain poles, structures and associated hardware
- └ UETTDRLS54 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
- └ UETTDRT30 Perform to a given schedule rail traction switching operations

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
- └ UETTDRLS41 Install network infrastructure electrical equipment
- └ UETTDRLS42 Maintain network infrastructure electrical equipment
- └ UETTDRLS43 Perform low voltage field switching operation to a given schedule
- └ UETTDRLS55 Install and maintain low voltage underground services

Electrical 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
- └ UETTDRIS67 Solve problems in energy supply network equipment
- └ UETTDRSB39 Perform power system substation switching operation to a given schedule

UETTDRSB39 Perform power system substation switching operation to a given schedule 50

Electrical

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
- └ UETTDRREL16 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
- └ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables
- └ UETTDRTTP26 Install transmission structures and associated hardware
- └ UETTDRTTP27 Maintain transmission structures and associated hardware
- └ UETTDRTTP29 Install and maintain transmission overhead conductors and cables

Distribution Overhead Pathway Group

- └ UETTDRLDP12 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
- └ UETTDRLS41 Install network infrastructure electrical equipment
- └ UETTDRLS42 Maintain network infrastructure electrical equipment
- └ UETTDRLS52 Install and maintain poles, structures and associated hardware
- └ UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables
- └ UETTDRLS56 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
- └ UETTDRLS52 Install and maintain poles, structures and associated hardware
- └ UETTDRLS54 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

└ UETTDRI41 Install network infrastructure electrical equipment

└ UETTDRI42 Maintain network infrastructure electrical equipment

└ UETTDRI55 Install and maintain low voltage underground services

Electrical 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	
	└ UETTDRIS67 Solve problems in energy supply network equipment	
UETTDRTP34	Install/maintain overhead transmission network infrastructure	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	
	└ UEENEEE104A Solve problems in d.c. 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	
	└ 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	
	└ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	└ UEENEEG102A Solve problems in low voltage a.c. circuits	
	└ UEENEEG103A Install low voltage wiring and accessories	
	└ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations	
	└ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations	

- └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
 - └ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations
 - └ 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
 - └ UETTDREL16 Working safely near live electrical apparatus
 - └ UETTDRLS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs
 - └ UETTDRLS63 Implement & monitor power system environmental & sustainable energy management policies & procedures
 - └ UETTDRLS67 Solve problems in energy supply network equipment
- UETTDRT35 Install/maintain transmission network infrastructure electrical equipment 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
 - └ UEENEEE104A Solve problems in d.c. 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
 - └ 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

	<ul style="list-style-type: none"> └ UEENEEG063A Arrange circuits, control and protection for general electrical installations └ UEENEEG101A Solve problems in electromagnetic devices and related circuits └ UEENEEG102A Solve problems in low voltage a.c. circuits └ UEENEEG103A Install low voltage wiring and accessories └ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations └ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits └ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations └ 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 └ UETTDREL16 Working safely near live electrical apparatus └ UETTDRLS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs └ UETTDRLS63 Implement & monitor power system environmental & sustainable energy management policies & procedures └ UETTDRLS67 Solve problems in energy supply network equipment └ UETTDRTTP34 Install/maintain overhead transmission network infrastructure 	
UETTDRTS37	Perform current injection testing using phantom load	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
 - └ UEENEEE104A Solve problems in d.c. 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
 - └ 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
 - └ UEENEEG101A Solve problems in electromagnetic devices and related circuits
 - └ UEENEEG102A Solve problems in low voltage a.c. circuits
 - └ UEENEEG103A Install low voltage wiring and accessories
 - └ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations
 - └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
 - └ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations
 - └ UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits
 - └ UEENEEG109A Develop and connect electrical control circuits
 - └ UEENEEG171A Install, set up and commission interval metering
 - └ UETTDREL11 Apply sustainable energy and environmental procedures
- UETTDRTS38 Install and replace high voltage metering and associated equipment 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

└ UEENEEE104A Solve problems in d.c. 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

└ 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

└ UEENEEG076A Install and replace low voltage current transformer metering

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG103A Install low voltage wiring and accessories

└ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations

└ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations

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

└ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations

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

└ UEENEEG109A Develop and connect electrical

control circuits

└ UEENEEG171A Install, set up and commission interval metering

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDREL16 Working safely near live electrical apparatus

└ UETTDRTS37 Perform current injection testing using phantom load

Qualification Mapping Information

This qualification replaces and is equivalent to UET40612 Certificate IV in ESI - Power Systems Network Infrastructure

Links

Companion Volume Implementation Guides are found in VETNet -

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