



Australian Government

UET50319 Diploma of ESI - Power Systems Operations

Release 2

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Modification History

Release 2. Removed deleted units UETTDRDS44, UETTDRDS49, UETTDRIS66, UETTDRSO39 and UETTDRSO43 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 in the electricity supply industry (ESI) as a Power Systems Technical Officer, a High Voltage (HV) Substation Project Manager or a Senior Systems Operator.

This qualification covers designing new overhead and underground powerline systems, overseeing the construction of electrical substations and related projects. These roles may also manage personnel, the business aspects of projects and give specialist advice to deal with day-to-day issues and problems.

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 **1600 weighting points** comprising:

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

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

Choose a total of **750 weighting points** elective units from the list below, of which between 0 and 270 **weighting points** can be taken from Group A; between 0 and 360 **weighting points** can be taken from Group B; between 0 and 200 **weighting points** can be taken from Group C and between 190 and 750 **weighting points** taken from Group D. You may select all your electives from this group.

Up to 270 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.

Core units		Weighting Points
UEENEEED104A	Use engineering applications software on personal computers └ UEENEEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace	40
UEENEEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEEE104A	Solve problems in d.c. circuits └ UEENEEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	80
UEENEEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEEE124A	Compile and produce an energy sector detailed report	60
UEENEEEE125A	Provide engineering solutions for problems in complex multiple path circuits └ UEENEEEE126A Provide solutions to basic engineering computational problems	60
UEENEEEE126A	Provide solutions to basic engineering computational problems └ UEENEEEE029B Solve electrotechnical problems or └ UEENEEG102A Solve problems in low voltage a.c. circuits or └ UEENEEH014B Troubleshoot frequency dependent circuits	60
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60

	<ul style="list-style-type: none"> └ 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 <ul style="list-style-type: none"> └ 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 	80
UEENEEG149A	Provide engineering solutions to problems in complex polyphase power circuits <ul style="list-style-type: none"> └ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits and └ UEENEEG102A Solve problems in low voltage a.c. circuits 	60
UETTDREL11	Apply sustainable energy and environmental procedures	20
UETTDREL15	Respond to power systems technical enquiries and requests	40
UETTDREL16	Working safely near live electrical apparatus	20
UETTDRLS62	Implement and monitor the power system organisational WHS/OHS policies, procedures and programs Common Unit Group <ul style="list-style-type: none"> └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UETTDREL16 Working safely near live electrical apparatus 	30
UETTDRLS63	Implement & monitor power system environmental & sustainable energy management policies & procedures Electrotechnology Pathway Unit Group <ul style="list-style-type: none"> └ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector ESI - TDR Pathway Unit Group <ul style="list-style-type: none"> └ UETTDREL11 Apply sustainable energy and environmental procedures 	30

UETTDRSO45	Operate and monitor system SCADA equipment	150
	Common Unit Group	
	└ UETTDREL15 Respond to power systems technical enquiries and requests	

Group A: Imported and common elective units	Weighting Points
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BSBCUS501	Manage quality customer service	40
BSBFIM501	Manage budgets and financial plans	70
BSBINM501	Manage an information or knowledge management system	50
BSBINN502	Build and sustain an innovative work environment	50
BSBLED501	Develop a workplace learning environment	60
BSBMGT502	Manage people performance	70
BSBMGT516	Facilitate continuous improvement	60
BSBMGT517	Manage operational plan	60
BSBSUS501	Develop workplace policy and procedures for sustainability	50
BSBWOR501	Manage personal work priorities and professional development	60
BSBWOR502	Lead and manage team effectiveness	60
TLIF2010	Apply fatigue management strategies	30
TLIF3063	Administer the implementation of fatigue management strategies	50

Group B: Qualification elective units	Weighting Points
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UEENEEE102A	Fabricate, assemble and dismantle utilities industry components	40
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	

UEENEEG006A	Solve problems in single and three phase low voltage machines	80
	<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 └ 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 	
UEENEEH102A	Repairs basic electronic apparatus faults by replacement of components	40
	<ul style="list-style-type: none"> └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components 	
UEENEEH112A	Troubleshoot digital sub-systems	80
	<ul style="list-style-type: none"> └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UEENEEH102A Repair basic electronic apparatus faults by replacement of components 	
UEENEEH139A	Troubleshoot basic amplifier circuits	40
	<ul style="list-style-type: none"> └ UEENEEH102A Repair basic electronic apparatus faults by replacement of components <p>AND</p> <ul style="list-style-type: none"> └ UEENEEH114A Troubleshoot resonance circuits in an electronic apparatus <p>OR</p> <ul style="list-style-type: none"> └ UEENEEG102A Solve problems in low voltage a.c. circuits 	

UETTDRI67	Solve problems in energy supply network equipment	80
	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	
	└ UEENEEG006A Solve problems in single and three phase low voltage machines	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UETTDRI68	Solve problems in energy supply network protection equipment and systems	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	
	└ 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 RIS67 Solve problems in energy supply network equipment

Group C: Qualification elective units

Weighting Points

UEENEEI155A Develop structured programs to control external devices 40

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

UETTD RDS31 Draft and layout a power system overhead distribution extension 60

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

└ 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

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDREL16 Working safely near live electrical apparatus

└ UETTD RIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

└ UETTD RIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures

UETTD RDS32 Draft and layout a power system underground distribution extension 60

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

└ 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

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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

UETTDRLS33 Draft and layout a power system street lighting system 60

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

└ 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

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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	
UETTD RDS34	Draft and layout a power system distribution substation minor upgrade	60
	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	
	└ 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	
	└ UETTDREL11 Apply sustainable energy and environmental procedures	
	└ UETTDREL16 Working safely near live electrical apparatus	
	└ UETTD RIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	└ UETTD RIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	

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

UETTD RDS35	Design overhead distribution power systems	140
	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	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	└ UEENEEE125A Provide engineering solutions for	

problems in complex multiple path circuits

└ UEENEEE126A Provide solutions to basic engineering computational problems

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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

Pathway Unit Group 1

└ UETTDRLS39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTDRLS45 Organise and implement ESI line and easement surveys

Pathway Unit Group 2

└ UETTDRLS43 Develop high voltage and low voltage distribution protection systems

UETTDRLS36 Design underground distribution power systems 140

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

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

└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits

- └ UEENEEE126A Provide solutions to basic engineering computational problems
- └ UEENEEG101A Solve problems in electromagnetic devices and related circuits
- └ UEENEEG102A Solve problems in low voltage a.c. circuits
- └ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits
- └ UETTDREL11 Apply sustainable energy and environmental procedures
- └ 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

Pathway Unit Group 1

- └ UETTDRLS39 Prepare and manage detailed construction plans for electrical power system infrastructure
- └ UETTDRLS45 Organise and implement ESI line and easement surveys

Pathway Unit Group 2

- └ UETTDRLS43 Develop high voltage and low voltage distribution protection systems

UETTDRLS37 Design power system distribution substations 140

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
- └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- └ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits
- └ UEENEEE126A Provide solutions to basic

engineering computational problems

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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

Pathway Unit Group 1

└ UETTDRLS39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTDRLS45 Organise and implement ESI line and easement surveys

Pathway Unit Group 2

└ UETTDRLS43 Develop high voltage and low voltage distribution protection systems

UETTDRLS38 Design power system public lighting systems 140

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

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

└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits

└ UEENEEE126A Provide solutions to basic engineering computational problems

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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

Pathway Unit Group 1

└ UETTDRLS39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTDRLS45 Organise and implement ESI line and easement surveys

Pathway Unit Group 2

└ UETTDRLS43 Develop high voltage and low voltage distribution protection systems

UETTDRLS39	Prepare and manage detailed construction plans for electrical power system infrastructure	140
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Common Unit Group

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

└ UEENEEE104A Solve problems in d.c. circuits

└ 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

└ UETTDREL11 Apply sustainable energy and environmental procedures

	<ul style="list-style-type: none"> └ 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 	
UETTDRLS42	Investigate quality of power systems supply issues	140
	Common Unit Group	
	<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 └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits └ UEENEEE126A Provide solutions to basic engineering computational problems └ UEENEEG101A Solve problems in electromagnetic devices and related circuits └ UEENEEG102A Solve problems in low voltage a.c. circuits └ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits └ UETTDREL11 Apply sustainable energy and environmental procedures └ 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 └ UETTDRLS35 Design overhead distribution power systems 	

└ UETTDRDS36 Design underground distribution power systems

Pathway Unit Group 1

└ UETTDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTDRDS45 Organise and implement ESI line and easement surveys

Pathway Unit Group 2

└ UETTDRDS43 Develop high voltage and low voltage distribution protection systems

UETTDRDS43	Develop high voltage and low voltage distribution protection systems	150
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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

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

└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits

└ UEENEEE126A Provide solutions to basic engineering computational problems

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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	
UETTDRDS45	Organise and implement ESI line and easement surveys	140
	Common Unit Group	
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE104A Solve problems in d.c. circuits	
	└ 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	
	└ UETTDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure	
	└ UETTDREL11 Apply sustainable energy and environmental procedures	
	└ UETTDREL16 Working safely near live electrical apparatus	
	└ UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	└ UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRDS46	Develop planned power systems outage strategies	140
	Common Unit Group	
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEE104A Use engineering applications software on personal computers	
	└ UETTDREL16 Working safely near live electrical apparatus	
	└ UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	

UETTDRI69	Diagnose and rectify faults in energy supply apparatus 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 └ UEENEEG006A Solve problems in single and three phase low voltage machines └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits └ UETTDRI67 Solve problems in energy supply network equipment └ UETTDRI68 Solve problems in energy supply network protection equipment and systems	60
UETTDRI70	Diagnose and rectify faults in electrical energy distribution systems 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.	60

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

└ UETTDRIS68 Solve problems in energy supply network protection equipment and systems

└ UETTDRIS69 Diagnose and rectify faults in energy supply apparatus

UETTDRIS71 Diagnose and rectify faults in electrical energy supply transmission systems 60

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

└ 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

└ UETTDRIS68 Solve problems in energy supply network protection equipment and systems

└ UETTDRIS69 Diagnose and rectify faults in energy supply apparatus

UETTDRIS72 Diagnose and rectify faults in distributed generation 60

systems

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

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

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

└ UETTDRI67 Solve problems in energy supply network equipment

└ UETTDRI68 Solve problems in energy supply network protection equipment and systems

└ UETTDRI69 Diagnose and rectify faults in energy supply apparatus

UETTDRSO36 Develop low voltage distribution switching programs 150

Common Unit Group

└ UEENEE104A Use engineering applications software on personal computers

└ 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

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

└ UEENEEE124A Compile and produce an energy sector detailed report

- └ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits
- └ UEENEEE126A Provide solutions to basic engineering computational problems
- └ UEENEEG101A Solve problems in electromagnetic devices and related circuits
- └ UEENEEG102A Solve problems in low voltage a.c. circuits
- └ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits
- └ UETTDREL11 Apply sustainable energy and environmental procedures
- └ 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

UETTDRLS037 Develop high voltage distribution and sub-transmission switching programs 150

Common Unit Group

- └ UEENEE104A Use engineering applications software on personal computers
- └ 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
- └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- └ UEENEEE124A Compile and produce an energy sector detailed report
- └ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits
- └ UEENEEE126A Provide solutions to basic engineering computational problems
- └ UEENEEG101A Solve problems in electromagnetic

devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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

UETTDRLS038 Develop and evaluate power systems transmission switching programs 150

Common Unit Group

└ UEENEEED104A Use engineering applications software on personal computers

└ UEENEEED101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

└ UEENEEED102A Fabricate, assemble and dismantle utilities industry components

└ UEENEEED104A Solve problems in d.c. circuits

└ UEENEEED107A Use drawings, diagrams, schedules, standards, codes and specifications

└ UEENEEED124A Compile and produce an energy sector detailed report

└ UEENEEED125A Provide engineering solutions for problems in complex multiple path circuits

└ UEENEEED126A Provide solutions to basic engineering computational problems

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

	<ul style="list-style-type: none"> └ UETTDREL11 Apply sustainable energy and environmental procedures └ UETTDREL16 Working safely near live electrical apparatus └ UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs └ UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures 	
UETTDRSO40	Coordinate high voltage distribution and sub-transmission networks Common Unit Group <ul style="list-style-type: none"> └ UEENEED104A Use engineering applications software on personal computers └ 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 └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEE124A Compile and produce an energy sector detailed report └ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits └ UEENEEE126A Provide solutions to basic engineering computational problems └ UEENEEG101A Solve problems in electromagnetic devices and related circuits └ UEENEEG102A Solve problems in low voltage a.c. circuits └ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits └ UETTDREL11 Apply sustainable energy and environmental procedures └ UETTDREL16 Working safely near live electrical apparatus └ UETTDRIS62 Implement and monitor the power 	150

	system organisational WHS/OHS policies, procedures and programs	
	<ul style="list-style-type: none"> UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs 	
UETTDRSO46	<p>Monitor and control the field staff activities</p> <p>To minimise incidents related to safe systems of work, entry into this unit requires at a minimum that an individual has demonstrated or possesses relevant technical engineering discipline competencies of at least AQF level 3. It is intended that an individual will be expected to perform with a large degree of autonomy in decision-making, whilst in an individual environment.</p> <p>This may include immediate response to protect human life, adverse effect on safety, security of supply or the integrity of the assets.</p> <p>NOTE: Typically the following disciplines provide direct entry; electrical or instrumentation, fitting and turning or mechanical trade.</p> <p>Where an individual does not possess or demonstrate the requisite entry requirement, an equivalent bridging program shall be used to ensure equivalence of entry.</p>	150
UETTDRSO47	<p>Coordinate high voltage transmission network</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> UEENEE104A Use engineering applications software on personal computers UEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEE102A Fabricate, assemble and dismantle utilities industry components UEENEE104A Solve problems in d.c. circuits UEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEE124A Compile and produce an energy sector detailed report UEENEE125A Provide engineering solutions for problems in complex multiple path circuits UEENEE126A Provide solutions to basic 	150

engineering computational problems

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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

└ UETTDRLS038 Develop and evaluate power systems transmission switching programs

UETTDRLS048 Respond to discrete and interdependent protection operations 150

Common Unit Group

└ UEENEEED104A Use engineering applications software on personal computers

└ UEENEEED101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

└ UEENEEED102A Fabricate, assemble and dismantle utilities industry components

└ UEENEEED104A Solve problems in d.c. circuits

└ UEENEEED107A Use drawings, diagrams, schedules, standards, codes and specifications

└ UEENEEED124A Compile and produce an energy sector detailed report

└ UEENEEED125A Provide engineering solutions for problems in complex multiple path circuits

└ UEENEEED126A Provide solutions to basic engineering computational problems

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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

Distribution and Sub-transmission Pathway Unit Group

└ UETTDRLS37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRLS40 Coordinate high voltage distribution and sub-transmission networks

Transmission Pathway Unit Group

└ UETTDRLS38 Develop and evaluate power systems transmission switching programs

└ UETTDRLS47 Coordinate high voltage transmission network

UETTDRLS49 Coordinate power system operations in a regulated energy market 150

Common Unit Group

└ UEENEE104A Use engineering applications software on personal computers

└ UEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

└ UEENEE102A Fabricate, assemble and dismantle utilities industry components

└ UEENEE104A Solve problems in d.c. circuits

└ UEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications

└ UEENEE124A Compile and produce an energy sector detailed report

└ UEENEE125A Provide engineering solutions for

problems in complex multiple path circuits

└ UEENEEE126A Provide solutions to basic engineering computational problems

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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

Distribution and Sub-transmission Pathway Unit Group

└ UETTDRLS037 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRLS040 Coordinate high voltage distribution and sub-transmission networks

Transmission Pathway Unit Group

└ UETTDRLS038 Develop and evaluate power systems transmission switching programs

└ UETTDRLS047 Coordinate high voltage transmission network

UETTDRLS21 Maintain interdependent network protection and control systems 150

Common Unit Group

└ UEENEE104A Use engineering applications software on personal computers

└ UEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

└ UEENEE102A Fabricate, assemble and dismantle utilities industry components

└ UEENEE104A Solve problems in d.c. circuits

	<ul style="list-style-type: none"> └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEE124A Compile and produce an energy sector detailed report └ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits └ UEENEEE126A Provide solutions to basic engineering computational problems └ UEENEEG101A Solve problems in electromagnetic devices and related circuits └ UEENEEG102A Solve problems in low voltage a.c. circuits └ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits └ UETTDREL11 Apply sustainable energy and environmental procedures └ 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 └ UETTDRTS29 Develop power systems secondary isolation instructional documents 	
UETTDRTS22	<p>Commission interdependent network protection and control systems</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> └ UEENEEED104A Use engineering applications software on personal computers └ 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 └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEE124A Compile and produce an energy 	150

sector detailed report

└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits

└ UEENEEE126A Provide solutions to basic engineering computational problems

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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

└ UETTDRTS21 Maintain interdependent network protection and control systems

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

UETTDRTS25 Maintain and test and metering schemes 140

Common Unit Group

└ UEENEE104A Use engineering applications software on personal computers

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

└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

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problems in complex multiple path circuits

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└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ 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

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

UETTDRTS26 Commission power systems metering schemes 150

Common Unit Group

└ UEENEE104A Use engineering applications software on personal computers

└ 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

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devices and related circuits

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDREL16 Working safely near live electrical apparatus

└ UETTDRI62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

└ UETTDRI63 Implement & monitor power system environmental & sustainable energy management policies & procedures

└ UETTDRTS25 Maintain and test and metering schemes

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

UETTDRTS27 Perform accuracy checks on power systems instrument transformers 150

Common Unit Group

└ UEENEE104A Use engineering applications software on personal computers

└ UEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

└ UEENEE102A Fabricate, assemble and dismantle utilities industry components

└ UEENEE104A Solve problems in d.c. circuits

└ UEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications

└ UEENEE124A Compile and produce an energy sector detailed report

└ UEENEE125A Provide engineering solutions for problems in complex multiple path circuits

└ UEENEE126A Provide solutions to basic engineering computational problems

└ UEENEE101A Solve problems in electromagnetic devices and related circuits

	<ul style="list-style-type: none"> └ UEENEEG102A Solve problems in low voltage a.c. circuits └ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits └ UETTDREL11 Apply sustainable energy and environmental procedures └ 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 	
UETTDRTS28	Repair, test and calibrate protection relays and meters Common Unit Group <ul style="list-style-type: none"> └ UEENEEG104A Use engineering applications software on personal computers └ 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 └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEE124A Compile and produce an energy sector detailed report └ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits └ UEENEEE126A Provide solutions to basic engineering computational problems └ UEENEEG101A Solve problems in electromagnetic devices and related circuits └ UEENEEG102A Solve problems in low voltage a.c. circuits └ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits └ UETTDREL11 Apply sustainable energy and environmental procedures 	150

- └ 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
- UETTDRTS29 Develop power systems secondary isolation instructional documents 150
- Common Unit Group
- └ UEENEED104A Use engineering applications software on personal computers
 - └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
 - └ UEENEEE102A Fabricate, assemble and dismantle utilities industry components
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 - └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
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 - └ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits
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 - └ UEENEEG101A Solve problems in electromagnetic devices and related circuits
 - └ UEENEEG102A Solve problems in low voltage a.c. circuits
 - └ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits
 - └ UETTDREL11 Apply sustainable energy and environmental procedures
 - └ UETTDREL16 Working safely near live electrical apparatus
 - └ UETTDRLS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

	<ul style="list-style-type: none"> └ UETTDNIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures 	
UETTDRTS31	<p>Maintain, test and commission power systems voltage regulating equipment</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> └ UEENEED104A Use engineering applications software on personal computers └ 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 └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEE124A Compile and produce an energy sector detailed report └ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits └ UEENEEE126A Provide solutions to basic engineering computational problems └ UEENEEG101A Solve problems in electromagnetic devices and related circuits └ UEENEEG102A Solve problems in low voltage a.c. circuits └ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits └ UETTDREL11 Apply sustainable energy and environmental procedures └ UETTDREL16 Working safely near live electrical apparatus └ UETTDNIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs └ UETTDNIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures 	150
UETTDRTS34	<p>Install and maintain power system communication equipment</p>	150

Common Unit Group

- └ UEENEED104A Use engineering applications software on personal computers
- └ 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
- └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
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- └ UETTDRLS63 Implement & monitor power system environmental & sustainable energy management policies & procedures

UETTDRTS35 Maintain complex network protection and control systems 180

Common Unit Group

- └ UEENEED104A Use engineering applications software on personal computers
- └ 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
- └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
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- └ UETTDREL16 Working safely near live electrical apparatus
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- └ UETTDRLS63 Implement & monitor power system environmental & sustainable energy management policies & procedures
- └ UETTDRTS21 Maintain interdependent network protection and control systems
- └ UETTDRTS29 Develop power systems secondary isolation instructional documents

Qualification Mapping Information

This qualification replaces and is equivalent to UET50312 Diploma of ESI - Power Systems Operations

Links

Companion Volume Implementation Guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>

