



Australian Government

UET60219 Advanced Diploma of ESI - Power Systems

Release 1

UET60219 Advanced Diploma of ESI - Power Systems

Modification History

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 System Senior Technical Officer or a Power Distribution System Engineer.

This qualification covers high-level managerial, design, testing and system operation functions in the transmission and distribution sectors of the ESI. These roles may also install, commission, maintain, diagnose and repair the hardware and software of complex power system protection, control and metering systems.

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 **2160 weighting points** comprising:

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

1340 general elective weighting points from the general elective units listed below.

Choose a total of **1340 weighting points** elective units from the list below, of which between 0 and 360 **weighting points** can be taken from Group A; between 0 and 400 **weighting points** can be taken from Group B; between 0 and 200 **weighting points** can be taken from Group C, between 140 and 900 **weighting points** can be taken from Group D and between 440 and 1200 **weighting points** taken from Group E.

Up to 360 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		
UEENEEED104A	Use engineering applications software on personal computers └ UEENEEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace	40
UEENEEEE083A	Establish and follow a competency development plan in an electrotechnology engineering discipline	120
UEENEEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEEE102A	Fabricate, assemble and dismantle utilities industry components └ UEENEEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
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 └ UEENEEEG102A Solve problems in low voltage a.c. circuits	60

	or	
	└ UEENEEH014B Troubleshoot frequency dependent 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	
UEENEEG149A	Provide engineering solutions to problems in complex polyphase power circuits	60
	└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	and	
	└ UEENEEG102A Solve problems in low voltage a.c. circuits	
UETTDREL11	Apply sustainable energy and environmental procedures	20
UETTDREL16	Working safely near live electrical apparatus	20
UETTDRI62	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	
UETTDRI63	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
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
Group B: Qualification elective units		Weighting Points
UEENEEG006A	Solve problems in single and three phase low voltage machines	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	

	<ul style="list-style-type: none"> └ 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 	
	AND	
	└ UEENEEH114A Troubleshoot resonance circuits in an electronic apparatus	
	OR	
	└ UEENEEG102A Solve problems in low voltage a.c. circuits	
UETTDREL15	Respond to power systems technical enquiries and requests	40
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

└ UETTDRI67 Solve problems in energy supply network equipment

Group C: Qualification elective units

Weighting Points

UEENEE117A Install and configure network systems for internetworking 120

└ UEENEEE101A Apply Occupational Health Safety

regulations, codes and practices in the workplace

UEENEEI155A Develop structured programs to control external devices 40

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

UETDRDS31 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

└ UETDRREL11 Apply sustainable energy and environmental procedures

└ UETDRREL16 Working safely near live electrical apparatus

└ UETDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

└ UETDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures

UETDRDS32 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

└ 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

UETTDRI33 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

└ 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

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 R IS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

└ UETTD R IS63 Implement & monitor power system environmental & sustainable energy management policies & procedures

Group D: Qualification elective units

Weighting Points

UEENEEI156A Develop and test code for microcontroller devices 60

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

UETTD R DS35 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
- └ 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

Pathway Unit Group 1

- └ UETTDNRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure
- └ UETTDNRDS45 Organise and implement ESI line and easement surveys

Pathway Unit Group 2

- └ UETTDNRDS43 Develop high voltage and low voltage distribution protection systems

UETTDNRDS36 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

└ 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

Pathway Unit Group 1

└ UETTDRI39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTDRI45 Organise and implement ESI line and easement surveys

Pathway Unit Group 2

└ UETTDRI43 Develop high voltage and low voltage distribution protection systems

UETTDRI37 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
- └ 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

Pathway Unit Group 1

- └ UETTDNRD39 Prepare and manage detailed construction plans for electrical power system infrastructure
- └ UETTDNRD45 Organise and implement ESI line and easement surveys

Pathway Unit Group 2

- └ UETTDNRD43 Develop high voltage and low voltage distribution protection systems

UETTDNRD38 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

└ 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

Pathway Unit Group 1

└ UETTDNIS39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTDNIS45 Organise and implement ESI line and easement surveys

Pathway Unit Group 2

└ UETTDNIS43 Develop high voltage and low voltage distribution protection systems

UETTDNIS39	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	
	└ 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	
UETTDNIS42	Investigate quality of power systems supply issues	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	
	└ 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	
	└ UETTDNIS35 Design overhead distribution power	

systems

└ UETTD RDS36 Design underground distribution power systems

Pathway Unit Group 1

└ UETTD RDS39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTD RDS45 Organise and implement ESI line and easement surveys

Pathway Unit Group 2

└ UETTD RDS43 Develop high voltage and low voltage distribution protection systems

UETTD RDS43 Develop high voltage and low voltage distribution protection systems 150

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

└ UETTD RIS62 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 	
UETTDNRDS44	Design power system substations modifications 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 └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ 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
UETTDNRDS45	Organise and implement ESI line and easement surveys Common Unit Group <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 └ 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 └ UETTDNRDS39 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 	140

	<ul style="list-style-type: none"> └ 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 	
UETTDNIS46	Develop planned power systems outage strategies Common Unit Group <ul style="list-style-type: none"> └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UEENED104A Use engineering applications software on personal computers └ UETTDREL16 Working safely near live electrical apparatus └ UETTDNIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs 	140
UETTDNIS49	Establish and manage power system geographical information systems data Common Unit Group <ul style="list-style-type: none"> └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UEENED104A Use engineering applications software on personal computers └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ UETTDREL16 Working safely near live electrical apparatus └ UETTDNIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs 	140
UETTDNIS66	Manage an electricity power system WHS/OHS management system	140
UETTDNIS69	Diagnose and rectify faults in energy supply apparatus 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 	60

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

UETTDRIS70 Diagnose and rectify faults in electrical energy distribution 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 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	
UETTDRSO36	Develop low voltage distribution switching programs	150
	Common Unit Group	
	└ 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 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

└ 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

UETDRSO37 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

UETDRSO38 Develop and evaluate power systems 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

└ 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

UETDRSO39 Coordinate low voltage distribution networks 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

└ 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 └ 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 └ UETTDRLS36 Develop low voltage distribution switching programs 	
UETTDRLS40	<p>Coordinate high voltage distribution and sub-transmission networks</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 	150

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

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

UETTDRSO43 Coordinate low voltage distribution network demand 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

└ 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

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

	<ul style="list-style-type: none"> └ UETTDRI63 Implement & monitor power system environmental & sustainable energy management policies & procedures └ UETTDRSO36 Develop low voltage distribution switching programs └ UETTDRSO39 Coordinate low voltage distribution networks 	
UETTDRSO45	<p>Operate and monitor system SCADA equipment</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> └ UETTDREL15 Respond to power systems technical enquiries and requests 	150
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"> └ 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 	150

	<ul style="list-style-type: none"> └ 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 └ 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 └ UETTDRSO38 Develop and evaluate power systems transmission switching programs 	
UETTDRSO48	<p>Respond to discrete and interdependent protection operations</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> └ 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 	150

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

└ 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

Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Transmission Pathway Unit Group

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

└ UETTDRSO47 Coordinate high voltage transmission network

UETTDRSO49 Coordinate power system operations in a regulated energy market 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

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

UETTDRLS21 Maintain interdependent network protection and control systems 150

Common Unit Group

└ UEENEED104A Use engineering applications software on personal computers

	<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 └ 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 └ 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 └ 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"> └ 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 	150

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

└ 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

└ 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

└ 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 	
UETTDRTS26	Commission power systems metering schemes Common Unit Group <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 sector detailed report 	150

- └ 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
- └ 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
- └ 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

└ 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

UETTDRTS28 Repair, test and calibrate protection relays and meters 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

└ 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

UETTDRTS29 Develop power systems secondary isolation instructional documents 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

└ UEENEE102A Solve problems in low voltage a.c. circuits

└ UEENEE149A Provide engineering solutions to problems in complex polyphase power circuits

└ UETTDREL11 Apply sustainable energy and environmental procedures

	<ul style="list-style-type: none"> └ 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 	
UETDRTS31	<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 └ UETTDRI62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs 	150

	<ul style="list-style-type: none"> └ UETTDRI63 Implement & monitor power system environmental & sustainable energy management policies & procedures 	
UETTDRTS34	Install and maintain power system communication equipment 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 └ 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 	150

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

UETTD RDS40	Prepare and appraise power systems financial impact statements	160
	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	
	└ 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	
	Testing Pathway Unit Group	
	└ UEENEEED104A Use engineering applications software on personal computers	
	└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	└ 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	
	└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	└ UETTD RTS21 Maintain interdependent network protection and control systems	
	└ UETTD RTS22 Commission interdependent network protection and control systems	

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

└ UETTDRTS35 Maintain complex network protection and control systems

Design Pathway Unit Group

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

UETTDRDS41 Manage electrical power systems infrastructure projects 160

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

└ 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

Testing Pathway Unit Group

└ UEENEE104A Use engineering applications software on personal computers

└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

└ 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

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

└ UETTDRTS21 Maintain interdependent network protection and control systems

└ UETTDRTS22 Commission interdependent network protection and control systems

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

└ UETTDRTS35 Maintain complex network protection and control systems

Design Pathway Unit Group

└ UETTDARDS39 Prepare and manage detailed construction plans for electrical power system infrastructure

UETTDARDS47 Review power system asset management strategies 150

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

└ 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

Testing Pathway Unit Group

└ UEENEE104A Use engineering applications software on personal computers

└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

└ 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

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

└ UETTDRTS21 Maintain interdependent network protection and control systems

└ UETTDRTS22 Commission interdependent network protection and control systems

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

└ UETTDRTS35 Maintain complex network protection and control systems

Design Pathway Unit Group

└ UETTD RDS39 Prepare and manage detailed construction plans for electrical power system infrastructure

UETTD RDS48 Analyse and appraise power system fault and outage data 150

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

└ UETTD RDS39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTDREL11 Apply sustainable energy and environmental procedures

	<ul style="list-style-type: none"> └ 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 	
UETTDSD50	Design customer power system substations	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 └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ 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 	
	Pathway Unit Group 1	
	<ul style="list-style-type: none"> └ UEENEEE104A Solve problems in d.c. circuits └ UEENEEG101A Solve problems in electromagnetic devices and related circuits └ UEENEEG102A Solve problems in low voltage a.c. circuits └ UETTDSD39 Prepare and manage detailed construction plans for electrical power system infrastructure └ UETTDSD45 Organise and implement ESI line and easement surveys 	
	Pathway Unit Group 2	
	<ul style="list-style-type: none"> └ UEENEEE104A Solve problems in d.c. circuits 	

- └ 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
- └ UETDRDS43 Develop high voltage and low voltage distribution protection systems
- Pathway Unit Group 3
- └ UETDRDS44 Design power system substations modifications

UETDRDS51	Manage power system transmission and sub-transmission design process	150
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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
- └ UETDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure
- └ UETDREL11 Apply sustainable energy and environmental procedures
- └ UETDREL16 Working safely near live electrical apparatus
- └ UETDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs
- └ UETDRIS63 Implement & monitor power system environmental & sustainable energy management

policies & procedures

UETTD RDS52 Design power system transmission, sub-transmission and zone substation buildings 160

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

└ UETTD RDS39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTD RDS44 Design power system substations modifications

└ UETTD REL11 Apply sustainable energy and environmental procedures

└ UETTD REL16 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 RDS53 Design power system transmission and sub-transmission substation primary plant 180

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

└ UETTD RDS39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTD RDS44 Design power system substations modifications

└ UETTD REL11 Apply sustainable energy and environmental procedures

└ UETTD REL16 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 RDS54 Design power system transmission and sub-transmission protection and control 180

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

└ UETTD RDS39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTD RDS44 Design power system substations modifications

└ UETTD REL11 Apply sustainable energy and environmental procedures

└ UETTD REL16 Working safely near live electrical apparatus

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

and programs

└ UETTDNIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures

UETTDNIS55 Design power system transmission and sub-transmission substation earthing 160

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

└ UETTDNIS39 Prepare and manage detailed construction plans for electrical power system infrastructure

└ UETTDNIS44 Design power system substations modifications

└ 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

UETTDNIS56 Design power system transmission, sub-transmission & zone substation civil & structural components 160

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

	<ul style="list-style-type: none"> └ UEENEEG101A Solve problems in electromagnetic devices and related circuits └ UEENEEG102A Solve problems in low voltage a.c. circuits └ UETDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure └ UETDRDS44 Design power system substations modifications └ UETDREL11 Apply sustainable energy and environmental procedures └ UETDREL16 Working safely near live electrical apparatus └ UETDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs └ UETDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures 	
UETDRDS57	Design power system overhead transmission systems Common Unit Group <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 └ 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 └ UETDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure └ UETDRDS45 Organise and implement ESI line and easement surveys └ UETDREL11 Apply sustainable energy and environmental procedures └ UETDREL16 Working safely near live electrical apparatus 	160

	<ul style="list-style-type: none"> └ 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 	
UETTDNIS58	Design underground transmission systems Common Unit Group <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 └ 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 └ UETTDNIS39 Prepare and manage detailed construction plans for electrical power system infrastructure └ UETTDNIS45 Organise and implement ESI line and easement surveys └ 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 	160
UETTDNIS71	Diagnose and rectify faults in electrical energy supply transmission systems 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 	60

- └ 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

UETTDRIS73 Develop engineering solutions for energy supply power transformer problems 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
- └ 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

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

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

└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power 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

Distribution Pathway Unit Group

└ UETTDRI70 Diagnose and rectify faults in electrical energy distribution systems

Transmission Pathway Unit Group

└ UETTDRI71 Diagnose and rectify faults in electrical energy supply transmission systems

Distributed Generation Pathway Unit Group

└ UETTDRI72 Diagnose and rectify faults in distributed generation systems

UETTDRI32 Manage power systems network faults 180

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

└ 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

└ 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

└ UETTDRSO41 Manage power systems transmission networks

└ UETTDRSO48 Respond to discrete and interdependent protection operations

└ UETTDRSO49 Coordinate power system operations in a regulated energy market

└ UETTDRSO50 Respond to complex power system protection operations

Generation/Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO34 Control power systems generating plant

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Generation/Transmission Pathway Unit Group

└ UETTDRSO34 Control power systems generating plant

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

└ UETTDRSO47 Coordinate high voltage transmission network

Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO35 Manage high voltage distribution and sub-transmission network demand

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Transmission Pathway Unit Group

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

└ UETTDRSO41 Manage power systems transmission networks

└ UETTDRSO42 Manage power systems transmission network demand

└ UETTDRSO47 Coordinate high voltage transmission network

UETTDRSO33 Manage power systems critical events 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

└ 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 system organisational WHS/OHS policies, procedures and programs

└ UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures

└ UETTDRSO32 Manage power systems network faults

└ UETTDRSO41 Manage power systems transmission networks

└ UETTDRSO48 Respond to discrete and interdependent protection operations

└ UETTDRSO49 Coordinate power system operations in a regulated energy market

└ UETTDRSO50 Respond to complex power system protection operations

Generation/Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO34 Control power systems generating plant

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Generation/Transmission Pathway Unit Group

└ UETTDRSO34 Control power systems generating plant

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

└ UETTDRSO47 Coordinate high voltage transmission network

Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO35 Manage high voltage distribution and sub-transmission network demand

	<ul style="list-style-type: none"> └ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs └ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks 	
	Transmission Pathway Unit Group	
	<ul style="list-style-type: none"> └ UETTDRSO38 Develop and evaluate power systems transmission switching programs └ UETTDRSO41 Manage power systems transmission networks └ UETTDRSO42 Manage power systems transmission network demand └ UETTDRSO47 Coordinate high voltage transmission network 	
UETTDRSO34	Control power systems generating plant	140
	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

└ 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

└ UETTDRSO48 Respond to discrete and interdependent protection operations

└ UETTDRSO49 Coordinate power system operations in a regulated energy market

Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Transmission Pathway Unit Group

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

└ UETTDRSO47 Coordinate high voltage transmission network

UETTDRSO35 Manage high voltage distribution and sub-transmission network demand 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

└ 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

└ 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

└ UETTDRSO48 Respond to discrete and interdependent protection operations

└ UETTDRSO49 Coordinate power system operations in a regulated energy market

Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Transmission Pathway Unit Group

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

└ UETTDRSO47 Coordinate high voltage transmission network

UETTDRSO41 Manage power systems transmission networks 180

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

└ 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

└ UETTDRLS48 Respond to discrete and interdependent protection operations

└ UETTDRLS49 Coordinate power system operations in a regulated energy market

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

UETTDRLS42 Manage power systems transmission network demand 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
- └ 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
- └ 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
- └ UETTDRSO41 Manage power systems transmission networks
- └ UETTDRSO48 Respond to discrete and interdependent protection operations
- └ UETTDRSO49 Coordinate power system operations in a regulated energy market

Distribution and Sub-transmission Pathway Unit Group

	<ul style="list-style-type: none"> └ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs └ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks 	
	Transmission Pathway Unit Group	
	<ul style="list-style-type: none"> └ UETTDRSO38 Develop and evaluate power systems transmission switching programs └ UETTDRSO47 Coordinate high voltage transmission network 	
UETTDRSO44	Develop crisis power systems management plans	140
	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 └ UETTDRI62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs 	

└ UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures

└ UETTDRSO32 Manage power systems network faults

└ UETTDRSO33 Manage power systems critical events

└ UETTDRSO41 Manage power systems transmission networks

└ UETTDRSO48 Respond to discrete and interdependent protection operations

└ UETTDRSO49 Coordinate power system operations in a regulated energy market

└ UETTDRSO50 Respond to complex power system protection operations

Generation/Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO34 Control power systems generating plant

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Generation/Transmission Pathway Unit Group

└ UETTDRSO34 Control power systems generating plant

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

└ UETTDRSO47 Coordinate high voltage transmission network

Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO35 Manage high voltage distribution and sub-transmission network demand

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Transmission Pathway Unit Group

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

	<ul style="list-style-type: none"> └ UETTDRSO41 Manage power systems transmission networks └ UETTDRSO42 Manage power systems transmission network demand └ UETTDRSO47 Coordinate high voltage transmission network 	
UETTDRSO50	<p>Respond to complex power system protection operations</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 └ UETTDRREL11 Apply sustainable energy and environmental procedures └ UETTDRREL16 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 	180

└ UETTDRSO41 Manage power systems transmission networks

└ UETTDRSO48 Respond to discrete and interdependent protection operations

└ UETTDRSO49 Coordinate power system operations in a regulated energy market

Generation/Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO34 Control power systems generating plant

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Generation/Transmission Pathway Unit Group

└ UETTDRSO34 Control power systems generating plant

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

└ UETTDRSO47 Coordinate high voltage transmission network

Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO35 Manage high voltage distribution and sub-transmission network demand

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Transmission Pathway Unit Group

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

└ UETTDRSO41 Manage power systems transmission networks

└ UETTDRSO42 Manage power systems transmission network demand

└ UETTDRSO47 Coordinate high voltage transmission network

UETTDRSO51 Manage network systems power flows 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
- └ 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
- └ 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
- └ UETTDRSO32 Manage power systems network faults
- └ UETTDRSO41 Manage power systems transmission networks
- └ UETTDRSO48 Respond to discrete and interdependent protection operations
- └ UETTDRSO49 Coordinate power system operations

in a regulated energy market

└ UETTDRSO50 Respond to complex power system protection operations

Generation/Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO34 Control power systems generating plant

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Generation/Transmission Pathway Unit Group

└ UETTDRSO34 Control power systems generating plant

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

└ UETTDRSO47 Coordinate high voltage transmission network

Distribution and Sub-transmission Pathway Unit Group

└ UETTDRSO35 Manage high voltage distribution and sub-transmission network demand

└ UETTDRSO37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDRSO40 Coordinate high voltage distribution and sub-transmission networks

Transmission Pathway Unit Group

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

└ UETTDRSO41 Manage power systems transmission networks

└ UETTDRSO42 Manage power systems transmission network demand

└ UETTDRSO47 Coordinate high voltage transmission network

UETTDRTS23 Conduct evaluation of power system substation faults 140

Common Unit Group

└ UEENEED104A Use engineering applications software on personal computers

	<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 └ 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 └ 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 	
UETTDRTS24	Design testing and commissioning procedures for field devices and substations	140
	Common Unit Group	
	<ul style="list-style-type: none"> └ 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

Protection Relays and Meters Pathway Unit Group

└ UETTDRTS28 Repair, test and calibrate protection relays and meters

Metering Pathway Unit Group

└ UETTDRTS25 Maintain and test and metering schemes

└ UETTDRTS26 Commission power systems metering schemes

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

Primary Plant Pathway Unit Group

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

└ UETTDRTS32 Conduct evaluation of power systems primary plant

Protection Systems Pathway Unit Group

└ UETTDRTS21 Maintain interdependent network protection and control systems

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

└ UETTDRTS35 Maintain complex network protection and control systems

UETTDRTS30 Design power systems secondary isolation instructional documents 160

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

└ 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	
UETTDRTS32	Conduct evaluation of power systems primary plant 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 └ 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 └ UETTDRTS29 Develop power systems secondary isolation instructional documents 	160
UETTDRTS33	Undertake power systems project management of substation augmentation and maintenance	180

Common Unit Group

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

Protection Relays and Meters Pathway Unit Group

- └ UETTDRTS28 Repair, test and calibrate protection relays and meters

Metering Pathway Unit Group

- └ UETTDRTS25 Maintain and test and metering schemes
- └ UETTDRTS26 Commission power systems metering

schemes

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

Primary Plant Pathway Unit Group

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

└ UETTDRTS32 Conduct evaluation of power systems primary plant

Protection Systems Pathway Unit Group

└ UETTDRTS21 Maintain interdependent network protection and control systems

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

└ UETTDRTS35 Maintain complex network protection and control systems

UETTDRTS35	Maintain complex network protection and control systems	180
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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	
UETTDRTS36	Commission complex network protection and control systems	180
	Common Unit Group	
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Qualification Mapping Information

This qualification replaces and is equivalent to UET60212 Advanced Diploma of ESI - Power Systems

Links

Companion Volume Implementation Guides are found in VETNet -

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