Australian Government

UET60221 Advanced Diploma of ESI - Power Systems

Release 1

UET60221 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 Release 2.0.

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.

Core units		Weighting Points
UEENEED104A	Use engineering applications software on personal computers ∟UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace	40
UEENEEE083A	Establish and follow a competency development plan in an electrotechnology engineering discipline	120
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE104A	Solve problems in d.c. circuits ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	80
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE124A	Compile and produce an energy sector detailed report	60
UEENEEE125A	Provide engineering solutions for problems in complex multiple path circuits ∟UEENEEE126A Provide solutions to basic engineering computational problems	60
UEENEEE126A	Provide solutions to basic engineering computational problems ∟UEENEEE029B Solve electrotechnical problems or ∟UEENEEG102A Solve problems in low voltage a.c. circuits or	60

	∟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	
UETDREL001	Apply environmental requirements	20
UETDREL005	Work safely in the vicinity of live electrical apparatus	20
UETDRIS005	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	
	∟UETDREL001 Apply environmental requirements	
UETDRIS006	Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	30
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	

Group A: Imported and common elective units		Weighting Points
BSBFIN501	Manage budgets and financial plans	70
BSBHRM523	Coordinate the learning and development of teams and individuals	60
BSBINS501	Implement information and knowledge management systems	50
BSBLDR522	Manage people performance	70
BSBOPS502	Manage business operational plans	60
BSBOPS505	Manage organisational customer service	40
BSBPEF501	Manage personal and professional development	60
BSBSTR501	Establish innovative work environments	50
BSBSTR502	Facilitate continuous improvement	60
BSBSUS511	Develop workplace policies and procedures for sustainability	50
BSBTWK502	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	
	∟ 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 ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	40
UEENEEH112A	Troubleshoot digital sub-systems ∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEH102A Repair basic electronic apparatus faults by replacement of components	80
UEENEEH139A	Troubleshoot basic amplifier circuits ∟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	40
UETTDREL15	Respond to power systems technical enquiries and requests	40
UETTDRIS67	Solve problems in energy supply network equipment 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	80

	∟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	
UETTDRIS68	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	
	∟UETTDRIS67 Solve problems in energy supply network equipment	

Group C: Qualification elective units		**Weighting Points**
UEENEED117A	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	
UETDRDS008	Draft and layout a power system distribution substation minor upgrade	60
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRDS009	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	

	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRDS010	Draft and layout a power system street lighting system	60
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRDS011	Draft and layout a power system underground distribution extension	60
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	

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	
UETDRDS002	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	
	∟UETDREL001 Apply environmental requirements	

	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	Pathway Unit Group 1	
	∟UETDRDS013 Organise and implement ESI line and easement surveys	
	∟UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure	
	Pathway Unit Group 2	
	∟UETDRDS006 Develop high voltage and low voltage distribution protection systems	
UETDRDS003	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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	

	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	Pathway Unit Group 1	
	∟UETDRDS013 Organise and implement ESI line and easement surveys	
	∟UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure	
	Pathway Unit Group 2	
	∟UETDRDS006 Develop high voltage and low voltage distribution protection systems	
UETDRDS004	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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management	

	policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	Pathway Unit Group 1	
	∟UETDRDS013 Organise and implement ESI line and easement surveys	
	∟UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure	
	Pathway Unit Group 2	
	∟UETDRDS006 Develop high voltage and low voltage distribution protection systems	
UETDRDS005	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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power	

	system organisational WHS/OHS policies, procedures and programs	
	Pathway Unit Group 1	
	∟UETDRDS013 Organise and implement ESI line and easement surveys	
	∟UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure	
	Pathway Unit Group 2	
	∟UETDRDS006 Develop high voltage and low voltage distribution protection systems	
UETDRDS006	Develop high voltage and low voltage distribution protection systems	150
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	

UETDRDS007	Develop planned power systems outage strategies	140
	∟UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEED104A Use engineering applications software on personal computers	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRDS012	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	
	∟UETDRDS002 Design overhead distribution power systems	
	∟UETDRDS005 Design underground distribution power systems	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management	

	policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	Pathway Unit Group 1	
	∟UETDRDS013 Organise and implement ESI line and easement surveys	
	∟UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure	
	Pathway Unit Group 2	
	∟UETDRDS006 Develop high voltage and low voltage distribution protection systems	
UETDRDS013	Organise and implement ESI line and easement surveys	140
	∟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	
	∟UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRDS014	Prepare and manage detailed construction plans for electrical power system infrastructure	140
	∟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 ∟UETDREL001 Apply environmental requirements ∟UETDREL005 Work safely in the vicinity of live electrical apparatus ∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRSO001	Coordinate high voltage distribution and sub-transmission networks ∟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	150

	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETDRSO005 Develop high voltage distribution and sub-transmission switching programs	
UETDRSO002	Coordinate high voltage transmission network	150
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	

	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETDRSO004 Develop and evaluate power systems transmission switching programs	
UETDRSO003	Coordinate power system operations in a regulated energy market	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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	Distribution and Sub-transmission Pathway Unit Group	

	∟UETDRSO001 Coordinate high voltage distribution and sub-transmission networks	
	∟UETDRSO005 Develop high voltage distribution and sub-transmission switching programs	
	Transmission Pathway Unit Group	
	∟UETDRSO002 Coordinate high voltage transmission network	
	∟UETDRSO004 Develop and evaluate power systems transmission switching programs	
UETDRSO004	Develop and evaluate power systems transmission switching programs	150
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power	

	system organisational WHS/OHS policies, procedures and programs	
UETDRSO005	Develop high voltage distribution and sub-transmission switching programs	150
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRSO006	Develop low voltage distribution switching programs	150
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRSO011	Respond to discrete and interdependent protection operations	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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	Distribution and Sub-transmission Pathway Unit Group	
	∟UETDRSO001 Coordinate high voltage distribution and sub-transmission networks	
	∟UETDRSO005 Develop high voltage distribution and sub-transmission switching programs	
	Transmission Pathway Unit Group	
	∟UETDRSO002 Coordinate high voltage transmission network	
	∟UETDRSO004 Develop and evaluate power systems transmission switching programs	
UETDRTS004	Commission interdependent network protection and control systems	150
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETDRTS010 Develop power systems secondary isolation instructional documents	
	∟UETDRTS017 Maintain interdependent network protection and control systems	
UETDRTS005	Commission power systems metering schemes	150
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETDRTS010 Develop power systems secondary isolation instructional documents	
	∟UETDRTS014 Maintain and test and metering schemes	
UETDRTS010	Develop power systems secondary isolation instructional documents	150
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRTS011	Install and maintain power system communication equipment	150
	∟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	

	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRTS014	Maintain and test and metering schemes	140
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures	

	and programs ∟UETDRTS010 Develop power systems secondary isolation instructional documents	
UETDRTS017	Maintain interdependent network protection and control systems ∟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 ∟UETDREL001 Apply environmental requirements ∟UETDREL005 Work safely in the vicinity of live electrical apparatus ∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs ∟UETDRTS010 Develop power systems secondary isolation instructional documents	150
UETDRTS018	Maintain, test and commission power systems voltage regulating equipment	150

	∟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 ∟UETDREL001 Apply environmental requirements ∟UETDREL005 Work safely in the vicinity of live electrical apparatus ∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRTS021	Perform accuracy checks on power systems instrument transformers ∟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	150

	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRTS023	Repair, test and calibrate protection relays and meters	150
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETTDRIS69	Diagnose and rectify faults in energy supply apparatus	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	

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	
UETTDRSO45	Operate and monitor system SCADA equipment	150
	Common Unit Group	
	∟UETTDREL15 Respond to power systems technical enquiries and requests	
UETTDRSO46	Monitor and control the field staff activities	150
	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.	
	This may include immediate response to protect human life, adverse effect on safety, security of supply or the integrity of the assets.	
	NOTE: Typically the following disciplines provide direct entry; electrical or instrumentation, fitting and turning or mechanical trade.	
	Where an individual does not possess or demonstrate the requisite entry requirement, an equivalent bridging program shall be used to ensure equivalence of entry.	

Group E: Qualification elective units		**Weighting Points**
UETDRDS001	Design customer power system 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

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

∟UETDREL001 Apply environmental requirements

∟UETDREL005 Work safely in the vicinity of live electrical apparatus

∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures

∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

Pathway Unit Group 1

∟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

∟UETDRDS013 Organise and implement ESI line and easement surveys

∟UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure

Pathway Unit Group 2

∟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

∟UETDRDS006 Develop high voltage and low voltage

	distribution protection systems	
UETDRSO007	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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETDRSO003 Coordinate power system operations in a regulated energy market	
	∟UETDRSO011 Respond to discrete and interdependent protection operations	

	Distribution and Sub-transmission Pathway Unit Group	
	∟UETDRSO001 Coordinate high voltage distribution and sub-transmission networks	
	∟UETDRSO005 Develop high voltage distribution and sub-transmission switching programs	
	Transmission Pathway Unit Group	
	∟UETDRSO002 Coordinate high voltage transmission network	
	∟UETDRSO004 Develop and evaluate power systems transmission switching programs	
UETDRSO008	Manage power systems network faults	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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management	

policies & procedures

∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

∟UETDRSO003 Coordinate power system operations in a regulated energy market

∟UETDRSO009 Manage power systems transmission networks

∟UETDRSO010 Respond to complex power system protection operations

∟UETDRSO011 Respond to discrete and interdependent protection operations

Generation/Distribution and Sub-transmission Pathway Unit Group

∟UETDRSO001 Coordinate high voltage distribution and sub-transmission networks

∟UETDRSO005 Develop high voltage distribution and sub-transmission switching programs

Generation/Transmission Pathway Unit Group

∟UETDRSO002 Coordinate high voltage transmission network

∟UETDRSO004 Develop and evaluate power systems transmission switching programs

Distribution and Sub-transmission Pathway Unit Group

∟UETDRSO001 Coordinate high voltage distribution and sub-transmission networks

∟UETDRSO005 Develop high voltage distribution and sub-transmission switching programs

∟UETDRSO007 Manage high voltage distribution and sub-transmission network demand

Transmission Pathway Unit Group

∟UETDRSO002 Coordinate high voltage transmission network

∟UETDRSO004 Develop and evaluate power systems transmission switching programs

∟UETDRSO009 Manage power systems transmission networks

UETDRSO009	Manage power systems transmission networks	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

∟UETDREL001 Apply environmental requirements

∟UETDREL005 Work safely in the vicinity of live electrical apparatus

∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures

∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

∟UETDRSO003 Coordinate power system operations in a regulated energy market

∟UETDRSO011 Respond to discrete and interdependent protection operations

Distribution and Sub-transmission Pathway Unit Group

∟UETDRSO001 Coordinate high voltage distribution and sub-transmission networks

∟UETDRSO005 Develop high voltage distribution and

	sub-transmission switching programs	
	Transmission Pathway Unit Group	
	∟UETDRSO002 Coordinate high voltage transmission network	
	∟UETDRSO004 Develop and evaluate power systems transmission switching programs	
UETDRSO010	Respond to complex power system protection operations	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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETDRSO003 Coordinate power system operations	

	in a regulated energy market	
	∟UETDRSO009 Manage power systems transmission networks	
	∟UETDRSO011 Respond to discrete and interdependent protection operations	
	Generation/Distribution and Sub-transmission Pathway Unit Group	
	∟UETDRSO001 Coordinate high voltage distribution and sub-transmission networks	
	∟UETDRSO005 Develop high voltage distribution and sub-transmission switching programs	
	Generation/Transmission Pathway Unit Group	
	∟UETDRSO002 Coordinate high voltage transmission network	
	∟UETDRSO004 Develop and evaluate power systems transmission switching programs	
	Distribution and Sub-transmission Pathway Unit Group	
	∟UETDRSO001 Coordinate high voltage distribution and sub-transmission networks	
	∟UETDRSO005 Develop high voltage distribution and sub-transmission switching programs	
	∟UETDRSO007 Manage high voltage distribution and sub-transmission network demand	
	Transmission Pathway Unit Group	
	∟UETDRSO002 Coordinate high voltage transmission network	
	∟UETDRSO004 Develop and evaluate power systems transmission switching programs	
	∟UETDRSO009 Manage power systems transmission networks	
UETDRTS001	Commission complex network protection and control systems	180
	∟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	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	∟UETDRTS004 Commission interdependent network protection and control systems	
	∟UETDRTS010 Develop power systems secondary isolation instructional documents	
	∟UETDRTS015 Maintain complex network protection and control systems	
	∟UETDRTS017 Maintain interdependent network protection and control systems	
UETDRTS006	Conduct evaluation of power system substation faults	140
	∟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	
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Distribution Pathway Unit Group

∟UETTDRIS70 Diagnose and rectify faults in electrical energy distribution systems

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

Distributed Generation Pathway Unit Group

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Qualification Mapping Information

This qualification replaces and is equivalent to UET60219 Advanced Diploma of ESI - Power Systems

Links

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