



**Australian Government**

# **UET60319 Advanced Diploma of ESI - Power Systems Operations**

**Release 1**

# UET60319 Advanced Diploma of ESI - Power Systems Operations

## 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 Systems Senior Technical Officer or a Power Transmission and 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 **2060 weighting points** comprising:

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

**1090 general elective weighting points** from the general elective units listed below.

Choose a total of **1090 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 360 **weighting points** can be taken from Group B; between 0 and 200 **weighting points** can be taken from Group C and between 140 and 650 **weighting points** can be taken from Group D and between 440 and 950 **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
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
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 or └ UEENEEEH014B Troubleshoot frequency dependent circuits	60
UEENEEEG101A	Solve problems in electromagnetic devices and related	60

	circuits	
	└ 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
UETTDREL15	Respond to power systems technical enquiries and requests	40
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

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

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

<b>Group B: Qualification elective units</b>	<b>Weighting Points</b>
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UEENEEE102A	Fabricate, assemble and dismantle utilities industry components	40
	└ UEENEEE101A Apply Occupational Health and	

## Safety regulations, codes and practices in the workplace

UEENEEG006A	Solve problems in single and three phase low voltage machines	80
	<ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE105A Fix and secure electrotechnology equipment</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuit</li> <li>└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits</li> </ul>	
UEENEEH102A	Repairs basic electronic apparatus faults by replacement of components	40
	<ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components</li> </ul>	
UEENEEH112A	Troubleshoot digital sub-systems	80
	<ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEH102A Repair basic electronic apparatus faults by replacement of components</li> </ul>	
UEENEEH139A	Troubleshoot basic amplifier circuits	40
	<ul style="list-style-type: none"> <li>└ UEENEEH102A Repair basic electronic apparatus faults by replacement of components</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>└ UEENEEH114A Troubleshoot resonance circuits in an electronic apparatus</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>└ UEENEEG102A Solve problems in low voltage a.c.</li> </ul>	

## circuits

## UETTDRI67 Solve problems in energy supply network equipment 80

## Common Unit Group

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

└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

└ UEENEEE104A Solve problems in d.c. circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

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

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

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

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

## UETTDRI68 Solve problems in energy supply network protection equipment and systems 40

## Common Unit Group

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

└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

└ UEENEEE104A Solve problems in d.c. circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

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

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

└ UEENEEG006A Solve problems in single and three

phase low voltage machines

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

└ UETTDRI67 Solve problems in energy supply network equipment

### Group C: Qualification elective units

### Weighting Points

UEENEE117A	Install and configure network systems for internetworking	120
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└ UEENEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace

UEENEE155A	Develop structured programs to control external devices	40
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└ UEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

UETTDRI31	Draft and layout a power system overhead distribution extension	60
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#### Common Unit Group

└ 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

└ UEENEE101A Solve problems in electromagnetic devices and related circuits

└ UEENEE102A 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 RDS32	<p>Draft and layout a power system underground distribution extension</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTD R IS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs</li> <li>└ UETTD R IS63 Implement &amp; monitor power system environmental &amp; sustainable energy management policies &amp; procedures</li> </ul>	60
UETTD RDS33	<p>Draft and layout a power system street lighting system</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UETTDREL11 Apply sustainable energy and</li> </ul>	60

	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	
UETTD34	Draft and layout a power system distribution substation minor upgrade	60
	Common Unit Group	
	└ 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	
	└ UEENEE101A Solve problems in electromagnetic devices and related circuits	
	└ UEENEE102A 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	

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

UEENEE156A	Develop and test code for microcontroller devices	60
	└ UEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	

UETTD RDS35	Design overhead distribution power systems	140
	Common Unit Group	
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	└ UEENEEE104A Solve problems in d.c. circuits	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	└ UEENEEE126A Provide solutions to basic engineering computational problems	
	└ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	└ UEENEEG102A Solve problems in low voltage a.c. circuits	
	└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	└ UETTDREL11 Apply sustainable energy and environmental procedures	
	└ UETTDREL16 Working safely near live electrical apparatus	
	└ 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	
	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	

UETTDRDS36	Design underground distribution power systems	140
	Common Unit Group	
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	└ UEENEEE104A Solve problems in d.c. circuits	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	└ UEENEEE126A Provide solutions to basic engineering computational problems	
	└ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	└ UEENEEG102A Solve problems in low voltage a.c. circuits	
	└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	└ UETTDREL11 Apply sustainable energy and environmental procedures	
	└ UETTDREL16 Working safely near live electrical apparatus	
	└ UETTDRLS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	└ UETTDRLS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	Pathway Unit Group 1	
	└ UETTDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure	
	└ UETTDRDS45 Organise and implement ESI line and easement surveys	
	Pathway Unit Group 2	
	└ UETTDRDS43 Develop high voltage and low voltage distribution protection systems	

UETTD RDS37	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	
	└ 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	
	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	

UETTDRDS38	Design power system public lighting systems	140
	Common Unit Group	
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	└ UEENEEE104A Solve problems in d.c. circuits	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	└ UEENEEE126A Provide solutions to basic engineering computational problems	
	└ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	└ UEENEEG102A Solve problems in low voltage a.c. circuits	
	└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	└ UETTDREL11 Apply sustainable energy and environmental procedures	
	└ UETTDREL16 Working safely near live electrical apparatus	
	└ UETTDRLS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	└ UETTDRLS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	Pathway Unit Group 1	
	└ UETTDRDS39 Prepare and manage detailed construction plans for electrical power system infrastructure	
	└ UETTDRDS45 Organise and implement ESI line and easement surveys	
	Pathway Unit Group 2	
	└ UETTDRDS43 Develop high voltage and low voltage distribution protection systems	

UETTD RDS39	Prepare and manage detailed construction plans for electrical power system infrastructure	140
	Common Unit Group	
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE104A Solve problems in d.c. circuits	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	└ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	└ UEENEEG102A Solve problems in low voltage a.c. circuits	
	└ UETTDREL11 Apply sustainable energy and environmental procedures	
	└ UETTDREL16 Working safely near live electrical apparatus	
	└ UETTD RIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	└ UETTD RIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTD RDS42	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

└ UETTDNIS36 Design underground distribution power systems

### 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

UETTDNIS43	Develop high voltage and low voltage distribution protection systems	150
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### Common Unit Group

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

└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

└ UEENEEE104A Solve problems in d.c. circuits

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

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

└ UEENEEE126A Provide solutions to basic



	engineering computational problems	
	└ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	└ UEENEEG102A Solve problems in low voltage a.c. circuits	
	└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	└ UETTDREL11 Apply sustainable energy and environmental procedures	
	└ UETTDREL16 Working safely near live electrical apparatus	
	└ 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	
UETTD44	Design power system substations modifications	150
	Common Unit Group	
	└ UEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEE102A Fabricate, assemble and dismantle utilities industry components	
	└ UEENEE107A 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	
UETTD45	Organise and implement ESI line and easement surveys	140
	Common Unit Group	
	└ UEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	

	<ul style="list-style-type: none"> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UETTD RDS39 Prepare and manage detailed construction plans for electrical power system infrastructure</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTD RIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs</li> <li>└ UETTD RIS63 Implement &amp; monitor power system environmental &amp; sustainable energy management policies &amp; procedures</li> </ul>	
UETTD RDS46	Develop planned power systems outage strategies Common Unit Group <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEED104A Use engineering applications software on personal computers</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTD RIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs</li> </ul>	140
UETTD RDS49	Establish and manage power system geographical information systems data Common Unit Group <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEED104A Use engineering applications software on personal computers</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules,</li> </ul>	140

	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	
UETTDNIS66	Manage an electricity power system WHS/OHS management system	140
UETTDNIS69	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	
	└ UETTDNIS67 Solve problems in energy supply network equipment	
	└ UETTDNIS68 Solve problems in energy supply network protection equipment and systems	
UETTDNIS70	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	

	<ul style="list-style-type: none"> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE105A Fix and secure electrotechnology equipment</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UEENEEG006A Solve problems in single and three phase low voltage machines</li> <li>└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits</li> <li>└ UETTDRIS67 Solve problems in energy supply network equipment</li> <li>└ UETTDRIS68 Solve problems in energy supply network protection equipment and systems</li> <li>└ UETTDRIS69 Diagnose and rectify faults in energy supply apparatus</li> </ul>	
UETTDRIS71	<p>Diagnose and rectify faults in electrical energy supply transmission systems</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE105A Fix and secure electrotechnology equipment</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UEENEEG006A Solve problems in single and three phase low voltage machines</li> <li>└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits</li> </ul>	60

	<ul style="list-style-type: none"> <li>└ UETTDNIS67 Solve problems in energy supply network equipment</li> <li>└ UETTDNIS68 Solve problems in energy supply network protection equipment and systems</li> <li>└ UETTDNIS69 Diagnose and rectify faults in energy supply apparatus</li> </ul>	
UETTDNIS72	<p>Diagnose and rectify faults in distributed generation systems</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE105A Fix and secure electrotechnology equipment</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UEENEEG006A Solve problems in single and three phase low voltage machines</li> <li>└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits</li> <li>└ UETTDNIS67 Solve problems in energy supply network equipment</li> <li>└ UETTDNIS68 Solve problems in energy supply network protection equipment and systems</li> <li>└ UETTDNIS69 Diagnose and rectify faults in energy supply apparatus</li> </ul>	60
UETTDNIS036	<p>Develop low voltage distribution switching programs</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> <li>└ UEENEEG104A Use engineering applications software on personal computers</li> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> </ul>	150

- └ 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

	<ul style="list-style-type: none"> <li>└ UEENEEE124A Compile and produce an energy sector detailed report</li> <li>└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits</li> <li>└ UEENEEE126A Provide solutions to basic engineering computational problems</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTDRI62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs</li> <li>└ UETTDRI63 Implement &amp; monitor power system environmental &amp; sustainable energy management policies &amp; procedures</li> </ul>	
UETDRSO38	<p>Develop and evaluate power systems transmission switching programs</p> <p>Common Unit Group</p> <ul style="list-style-type: none"> <li>└ UEENEE104A Use engineering applications software on personal computers</li> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEE124A Compile and produce an energy sector detailed report</li> <li>└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits</li> <li>└ UEENEEE126A Provide solutions to basic</li> </ul>	150

engineering computational problems

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

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

└ UETTDREL11 Apply sustainable energy and environmental procedures

└ UETTDREL16 Working safely near live electrical apparatus

└ 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

UETTDRSO39      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	
	└ 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	
	└ UETTDRSO36 Develop low voltage distribution switching programs	
UETTDRSO40	Coordinate high voltage distribution and sub-transmission networks	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	

	<ul style="list-style-type: none"> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTDRLS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs</li> <li>└ UETTDRLS63 Implement &amp; monitor power system environmental &amp; sustainable energy management policies &amp; procedures</li> <li>└ UETTDRLSO37 Develop high voltage distribution and sub-transmission switching programs</li> </ul>	
UETTDRLSO43	Coordinate low voltage distribution network demand Common Unit Group <ul style="list-style-type: none"> <li>└ UEENEED104A Use engineering applications software on personal computers</li> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEE124A Compile and produce an energy sector detailed report</li> <li>└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits</li> <li>└ UEENEEE126A Provide solutions to basic engineering computational problems</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTDRLS62 Implement and monitor the power system organisational WHS/OHS policies, procedures</li> </ul>	150

and programs

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

└ UETTDRSO36 Develop low voltage distribution switching programs

└ UETTDRSO39 Coordinate low voltage distribution networks

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.

UETTDRSO47 Coordinate high voltage transmission network 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

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

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

UETTDRSO48 Respond to discrete and interdependent protection operations 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

└ 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
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#### 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

└ 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

└ 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

UETTDRTS22 Commission interdependent network protection and control systems 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

└ UETTDRTS21 Maintain interdependent network protection and control systems

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

UETTDRTS25 Maintain and test and metering schemes 140

Common Unit Group

└ UEENEE104A Use engineering applications software on personal computers

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

└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

└ 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

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

UETTDRTS26 Commission power systems metering schemes 150

Common Unit Group

└ UEENEE104A Use engineering applications software on personal computers

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

└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

└ UEENEEE104A Solve problems in d.c. circuits

└ 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

└ UETTDRTS25 Maintain and test and metering schemes

└ UETTDRTS29 Develop power systems secondary isolation instructional documents

UETTDRTS27 Perform accuracy checks on power systems instrument transformers 150

Common Unit Group

└ UEENEE104A Use engineering applications software on personal computers

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

└ UEENEE102A Fabricate, assemble and dismantle utilities industry components

└ UEENEE104A Solve problems in d.c. circuits

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

└ UEENEE124A Compile and produce an energy sector detailed report

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

└ UEENEE126A Provide solutions to basic engineering computational problems

	<ul style="list-style-type: none"> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTDRI62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs</li> <li>└ UETTDRI63 Implement &amp; monitor power system environmental &amp; sustainable energy management policies &amp; procedures</li> </ul>	
UETTDRTS28	Repair, test and calibrate protection relays and meters Common Unit Group <ul style="list-style-type: none"> <li>└ UEENEE104A Use engineering applications software on personal computers</li> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEE124A Compile and produce an energy sector detailed report</li> <li>└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits</li> <li>└ UEENEEE126A Provide solutions to basic engineering computational problems</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits</li> </ul>	150

	<ul style="list-style-type: none"> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTDRI62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs</li> <li>└ UETTDRI63 Implement &amp; monitor power system environmental &amp; sustainable energy management policies &amp; procedures</li> </ul>	
UETTDRTS29	Develop power systems secondary isolation instructional documents	150
	Common Unit Group	
	<ul style="list-style-type: none"> <li>└ UEENEED104A Use engineering applications software on personal computers</li> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEE124A Compile and produce an energy sector detailed report</li> <li>└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits</li> <li>└ UEENEEE126A Provide solutions to basic engineering computational problems</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTDRI62 Implement and monitor the power</li> </ul>	

	system organisational WHS/OHS policies, procedures and programs	
	└ UETTDRI63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRTS31	Maintain, test and commission power systems voltage regulating equipment	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	
	└ UETTDRI63 Implement & monitor power system environmental & sustainable energy management policies & procedures	

UETTDRTS34 Install and maintain power system communication equipment 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

└ 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

**Group E: Qualification elective units**

**Weighting Points**

UETTDRLS40 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

└ 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

└ 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

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

UETTDARDS48      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

└ UETTDARDS39 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

└ UETTDARIS62 Implement and monitor the power

	system organisational WHS/OHS policies, procedures and programs	
	└ UETTDRI63 Implement & monitor power system environmental & sustainable energy management policies & procedures	
UETTDRI50	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	
	└ UETTDRI11 Apply sustainable energy and environmental procedures	
	└ UETTDRI16 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	
	└ 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	
	└ 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	
	└ 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

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

UETDRDS52      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

└ 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

UETDRDS53 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

└ UETDRDS39 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

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

policies & procedures

**UETTDRDS55** 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

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

└ UETTDRDS44 Design power system substations modifications

└ 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

**UETTDRDS56** 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

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

	<ul style="list-style-type: none"> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UETTD RDS39 Prepare and manage detailed construction plans for electrical power system infrastructure</li> <li>└ UETTD RDS44 Design power system substations modifications</li> <li>└ UETTD REL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTD REL16 Working safely near live electrical apparatus</li> <li>└ UETTD RIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs</li> <li>└ UETTD RIS63 Implement &amp; monitor power system environmental &amp; sustainable energy management policies &amp; procedures</li> </ul>	
UETTD RDS57	Design power system overhead transmission systems Common Unit Group <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UETTD RDS39 Prepare and manage detailed construction plans for electrical power system infrastructure</li> <li>└ UETTD RDS45 Organise and implement ESI line and easement surveys</li> <li>└ UETTD REL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTD REL16 Working safely near live electrical apparatus</li> <li>└ UETTD RIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures</li> </ul>	160



	and programs	
	<ul style="list-style-type: none"> <li>└ UETTDRI63 Implement &amp; monitor power system environmental &amp; sustainable energy management policies &amp; procedures</li> </ul>	
UETTDSD58	Design underground transmission systems	160
	Common Unit Group	
	<ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UETTDSD39 Prepare and manage detailed construction plans for electrical power system infrastructure</li> <li>└ UETTDSD45 Organise and implement ESI line and easement surveys</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTDRI62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs</li> <li>└ UETTDRI63 Implement &amp; monitor power system environmental &amp; sustainable energy management policies &amp; procedures</li> </ul>	
UETTDRI73	Develop engineering solutions for energy supply power transformer problems	60
	Common Unit Group	
	<ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE105A Fix and secure electrotechnology</li> </ul>	

## 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

└ 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

## Distribution Pathway Unit Group

└ UETTDRIS70 Diagnose and rectify faults in electrical energy distribution systems

## Transmission Pathway Unit Group

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

## Distributed Generation Pathway Unit Group

└ UETTDRIS72 Diagnose and rectify faults in distributed generation systems

UETTDISO32      Manage power systems network faults      180

## 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
  - └ 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 RSO41 Manage power systems transmission networks
  - └ UETTD RSO48 Respond to discrete and interdependent protection operations
  - └ UETTD RSO49 Coordinate power system operations in a regulated energy market
  - └ UETTD RSO50 Respond to complex power system protection operations
- Generation/Distribution and Sub-transmission Pathway Unit Group
- └ UETTD RSO34 Control power systems generating plant
  - └ UETTD RSO37 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

└ 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

└ UETTDRLS32 Manage power systems network faults

└ UETTDRLS41 Manage power systems transmission networks

└ UETTDRLS48 Respond to discrete and interdependent protection operations

└ UETTDRLS49 Coordinate power system operations in a regulated energy market

└ UETTDRLS50 Respond to complex power system protection operations

Generation/Distribution and Sub-transmission Pathway Unit Group

└ UETTDRLS34 Control power systems generating plant

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

└ UETTDRLS40 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

UETTDRSO34 Control power systems generating plant 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
- └ 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
- └ UETTDNIS48 Respond to discrete and interdependent protection operations
- └ UETTDNIS49 Coordinate power system operations in a regulated energy market
- Distribution and Sub-transmission Pathway Unit Group
- └ UETTDNIS37 Develop high voltage distribution and sub-transmission switching programs
- └ UETTDNIS40 Coordinate high voltage distribution and sub-transmission networks
- Transmission Pathway Unit Group
- └ UETTDNIS38 Develop and evaluate power systems transmission switching programs
- └ UETTDNIS47 Coordinate high voltage transmission network

UETTDNIS35      Manage high voltage distribution and sub-transmission network demand      180

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
  - └ 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
  - └ UETTDNIS48 Respond to discrete and interdependent protection operations
  - └ UETTDNIS49 Coordinate power system operations in a regulated energy market
- Distribution and Sub-transmission Pathway Unit Group
- └ UETTDNIS37 Develop high voltage distribution and sub-transmission switching programs
  - └ UETTDNIS40 Coordinate high voltage distribution and sub-transmission networks
- Transmission Pathway Unit Group
- └ UETTDNIS38 Develop and evaluate power systems transmission switching programs



	<ul style="list-style-type: none"> <li>└ UETTDRSO47 Coordinate high voltage transmission network</li> </ul>	
UETTDRSO41	Manage power systems transmission networks Common Unit Group <ul style="list-style-type: none"> <li>└ UEENEED104A Use engineering applications software on personal computers</li> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</li> <li>└ UEENEEE104A Solve problems in d.c. circuits</li> <li>└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</li> <li>└ UEENEEE124A Compile and produce an energy sector detailed report</li> <li>└ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits</li> <li>└ UEENEEE126A Provide solutions to basic engineering computational problems</li> <li>└ UEENEEG101A Solve problems in electromagnetic devices and related circuits</li> <li>└ UEENEEG102A Solve problems in low voltage a.c. circuits</li> <li>└ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits</li> <li>└ UETTDREL11 Apply sustainable energy and environmental procedures</li> <li>└ UETTDREL16 Working safely near live electrical apparatus</li> <li>└ UETTDRIS62 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs</li> <li>└ UETTDRIS63 Implement &amp; monitor power system environmental &amp; sustainable energy management policies &amp; procedures</li> <li>└ UETTDRSO48 Respond to discrete and interdependent protection operations</li> <li>└ UETTDRSO49 Coordinate power system operations in a regulated energy market</li> </ul>	180

## 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

UETTDRSO42 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

└ 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

└ 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

└ 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

UETTDRSO44 Develop crisis power systems management plans 140

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

└ UETTDRLS32 Manage power systems network faults

└ UETTDRLS33 Manage power systems critical events

└ UETTDRLS41 Manage power systems transmission networks

└ UETTDRLS48 Respond to discrete and interdependent protection operations

└ UETTDRLS49 Coordinate power system operations in a regulated energy market

└ UETTDRLS50 Respond to complex power system protection operations

Generation/Distribution and Sub-transmission Pathway Unit Group

└ UETTDRLS34 Control power systems generating plant

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

└ UETTDRLS40 Coordinate high voltage distribution and sub-transmission networks

Generation/Transmission Pathway Unit Group

└ UETTDRLS34 Control power systems generating plant

└ UETTDRLS38 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

UETTDRSO50 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

└ 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

└ UETTDNIS41 Manage power systems transmission networks

└ UETTDNIS48 Respond to discrete and interdependent protection operations

└ UETTDNIS49 Coordinate power system operations in a regulated energy market

## Generation/Distribution and Sub-transmission Pathway Unit Group

└ UETTDNIS34 Control power systems generating plant

└ UETTDNIS37 Develop high voltage distribution and sub-transmission switching programs

└ UETTDNIS40 Coordinate high voltage distribution and sub-transmission networks

## Generation/Transmission Pathway Unit Group

└ UETTDNIS34 Control power systems generating plant

└ UETTDNIS38 Develop and evaluate power systems transmission switching programs

└ UETTDNIS47 Coordinate high voltage transmission network

## Distribution and Sub-transmission Pathway Unit Group

└ UETTDNIS35 Manage high voltage distribution and sub-transmission network demand

└ UETTDNIS37 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

└ 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

└ 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

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Generation/Transmission Pathway Unit Group

└ UETTDRSO34 Control power systems generating plant

└ UETTDRSO38 Develop and evaluate power systems transmission switching programs

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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

## Qualification Mapping Information

This qualification replaces and is equivalent to UET60312 Advanced Diploma of ESI - Power Systems Operations

## Links

Companion Volume Implementation Guides are found in VETNet -

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