

UET50321 Diploma of ESI - Power Systems Operations

Release 1

UET50321 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 Release 2.0.

Qualification Description

This qualification provides the skills and knowledge to work in the electricity supply industry (ESI) as a Power Systems Technical Officer, a High Voltage (HV) Substation Project Manager or a Senior Systems Operator.

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

The skills and knowledge described within the units in this qualification may require a licence or permit to practice in the workplace.

Additional and/or other conditions may also apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing the qualification.

Entry Requirements

There are no entry requirements for this qualification

Packaging Rules

A total of **1600 weighting points** comprising:

850 core weighting points listed below; plus

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

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

Up to 270 weighting points of the general elective units Group A may be selected, with appropriate contextualisation, from any relevant nationally endorsed Training Package or accredited course, provided selected units contribute to the vocational outcome of the qualification. Previously assigned weighting points are listed in UET Transmission, Distribution and Rail Sector Training Package Companion Volume Implementation Guide, if not listed

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weighting points will be 10 points.

Where imported units are selected, care must be taken to ensure all prerequisite units specified are complied with.

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Core units		Weighting Points
UEENEED104A	Use engineering applications software on personal computers	40
	☐ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace	
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE104A	Solve problems in d.c. circuits	80
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	40
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
UEENEEE124A	Compile and produce an energy sector detailed report	60
UEENEEE125A	Provide engineering solutions for problems in complex multiple path circuits	60
	☐ UEENEEE126A Provide solutions to basic engineering computational problems	
UEENEEE126A	Provide solutions to basic engineering computational problems	60
	∟UEENEEE029B Solve electrotechnical problems	
	or	
	∟ UEENEEG102A Solve problems in low voltage a.c. circuits	
	or	
	∟ UEENEEH014B Troubleshoot frequency dependent circuits	
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60
	∟ UEENEEE101A Apply Occupational Health and	

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	LUEENEEE104A 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	
	LUEENEEE104A Solve problems in d.c. circuits	
	LUEENEEG101A Solve problems in electromagnetic devices and related circuits	
UEENEEG149A	Provide engineering solutions to problems in complex polyphase power circuits	60
	☐ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	and	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
UETDREL001	Apply environmental requirements	20
UETDREL005	Work safely in the vicinity of live electrical apparatus	20
UETDRIS005	Implement & monitor power system environmental & sustainable energy management policies & procedures	30
	Electrotechnology Pathway Unit Group	
	LUEENEEK142A Apply environmentally and sustainable procedures in the energy sector	
	ESI - TDR Pathway Unit Group	
	∟UETDREL001 Apply environmental requirements	
UETDRIS006	Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	30
	□ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETTDREL15	Respond to power systems technical enquiries and requests	40
UETTDRSO45	Operate and monitor system SCADA equipment	150

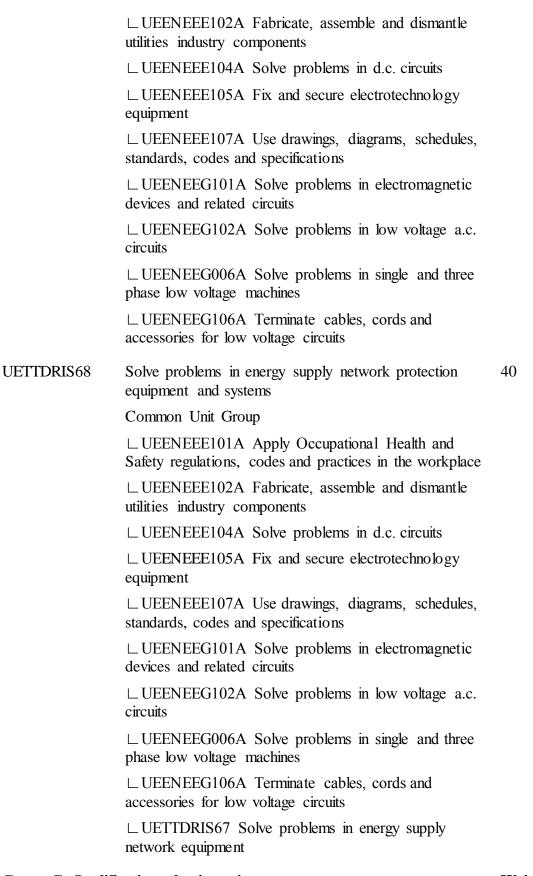
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Group A: Imported and common elective units		Weighting Points
BSBFIN501	Manage budgets and financial plans	70
BSBHRM523	Coordinate the learning and development of teams and individuals	60
BSBINS501	Implement information and knowledge management systems	50
BSBLDR522	Manage people performance	70
BSBOPS502	Manage business operational plans	60
BSBOPS505	Manage organisational customer service	40
BSBPEF501	Manage personal and professional development	60
BSBSTR501	Establish innovative work environments	50
BSBSTR502	Facilitate continuous improvement	60
BSBTWK502	Manage team effectiveness	60
BSBSUS511	Develop workplace policies and procedures for sustainability	50
TLIF2010	Apply fatigue management strategies	30
TLIF3063	Administer the implementation of fatigue management strategies	50
Group B: Qualification elective units		Weighting Points
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
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	

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	electrotechnology components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟UEENEEE105A Fix and secure electrotechnology equipment	
	□ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuit	
	∟UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEENEEH102A	Repairs basic electronic apparatus faults by replacement of components	40
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
UEENEEH112A	Troubleshoot digital sub-systems	80
	☐ UEENEEH102A Repair basic electronic apparatus faults by replacement of components	
UEENEEH139A	Troubleshoot basic amplifier circuits	40
	☐ UEENEEH102A Repair basic electronic apparatus faults by replacement of components	
	AND	
	☐ UEENEEH114A Troubleshoot resonance circuits in an electronic apparatus	
	OR	
	∟ UEENEEG102A Solve problems in low voltage a.c. circuits	
UETTDRIS67	Solve problems in energy supply network equipment	80
	Common Unit Group	
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	

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Group C: Qualification elective units

Weighting Points

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UEENEEI155A	Develop structured programs to control external devices L UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UETDRDS008	Draft and layout a power system distribution substation minor upgrade	60
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟ UEENEEE104A Solve problems in d.c. circuits	
	□ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	☐ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRDS009	Draft and layout a power system overhead distribution extension	60
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	☐ UEENEEE104A Solve problems in d.c. circuits	
	☐ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	

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	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	□ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	□ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRDS010	Draft and layout a power system street lighting system	60
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	□ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	☐ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRDS011	Draft and layout a power system underground distribution extension	60
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	□ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	

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UEENEEG101A Solve problems in electromagnetic devices and related circuits
 UEENEEG102A Solve problems in low voltage a.c. circuits
 UETDREL001 Apply environmental requirements
 UETDREL005 Work safely in the vicinity of live electrical apparatus
 UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures
 UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

Group D: Qualification elective units

Weighting Points

UETDRDS002 Design overhead distribution power systems

140

Common Unit Group

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

∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

∟ UEENEEE104A Solve problems in d.c. circuits

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

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

∟ UEENEEE126A Provide solutions to basic engineering computational problems

∟UEENEEG101A Solve problems in electromagnetic devices and related circuits

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

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

∟ UETDREL001 Apply environmental requirements

∟ UETDREL005 Work safely in the vicinity of live electrical apparatus

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

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UETDRDS003

policies & procedures ∟ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs Pathway Unit Group 1 ∟ UETDRDS013 Organise and implement ESI line and easement surveys ∟ UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure Pathway Unit Group 2 ∟ UETDRDS006 Develop high voltage and low voltage distribution protection systems 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 ∟ UEENEE107A 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 LUEENEEG102A Solve problems in low voltage a.c. circuits LUEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits ∟ UETDREL001 Apply environmental requirements LUETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures

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∟ UETDRIS006 Implement and monitor the power

UETDRDS004

system organisational WHS/OHS policies, procedures and programs Pathway Unit Group 1 ∟ UETDRDS013 Organise and implement ESI line and easement surveys ∟ UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure Pathway Unit Group 2 ∟ UETDRDS006 Develop high voltage and low voltage distribution protection systems 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 □ UEENEE125A Provide engineering solutions for problems in complex multiple path circuits ∟ UEENEEE126A Provide solutions to basic engineering computational problems ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits LUEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits ∟ UETDREL001 Apply environmental requirements ∟ UETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs

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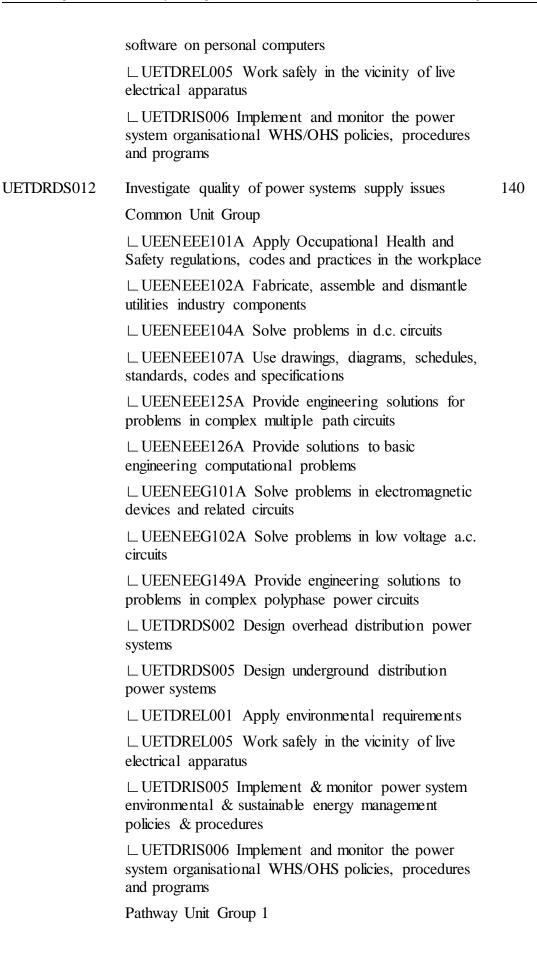
UETDRDS005

Pathway Unit Group 1 ∟ UETDRDS013 Organise and implement ESI line and easement surveys ∟ UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure Pathway Unit Group 2 ∟UETDRDS006 Develop high voltage and low voltage distribution protection systems 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 LUEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits ∟ UETDREL001 Apply environmental requirements LUETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs Pathway Unit Group 1 ∟ UETDRDS013 Organise and implement ESI line and

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easement surveys ∟ UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure Pathway Unit Group 2 ∟UETDRDS006 Develop high voltage and low voltage distribution protection systems **UETDRDS006** Develop high voltage and low voltage distribution 150 protection systems LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A 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 LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits LUEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits ∟ UETDREL001 Apply environmental requirements ∟ UETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs UETDRDS007 Develop planned power systems outage strategies 140 ∟ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEED104A Use engineering applications

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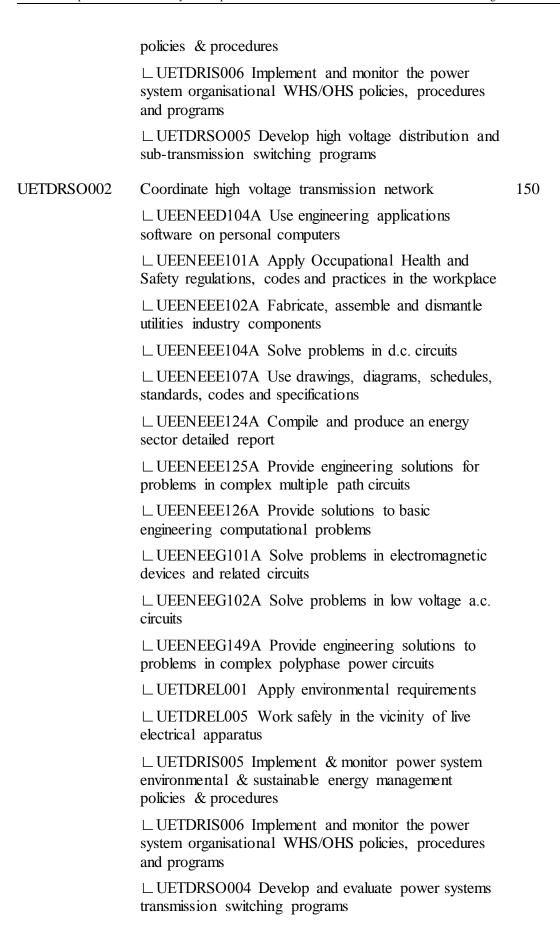
	easement surveys	
	∟ UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure	
	Pathway Unit Group 2	
	∟ UETDRDS006 Develop high voltage and low voltage distribution protection systems	
UETDRDS013	Organise and implement ESI line and easement surveys	140
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟ UEENEEE104A Solve problems in d.c. circuits	
	∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	☐ UETDRDS014 Prepare and manage detailed construction plans for electrical power system infrastructure	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	☐ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRDS014	Prepare and manage detailed construction plans for electrical power system infrastructure	140
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE104A Solve problems in d.c. circuits	
	□ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits	

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UETDRSO001

∟UEENEEG102A Solve problems in low voltage a.c. circuits	
∟UETDREL001 Apply environmental requirements	
∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
□ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
LUETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
Coordinate high voltage distribution and sub-transmission networks	150
☐ UEENEED104A Use engineering applications software on personal computers	
☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
∟ UEENEEE104A Solve problems in d.c. circuits	
∟UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
∟UEENEEE124A Compile and produce an energy sector detailed report	
□ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
□ UEENEEE126A Provide solutions to basic engineering computational problems	
∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
∟UEENEEG102A Solve problems in low voltage a.c. circuits	
☐ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
∟ UETDREL001 Apply environmental requirements	
∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management	

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150

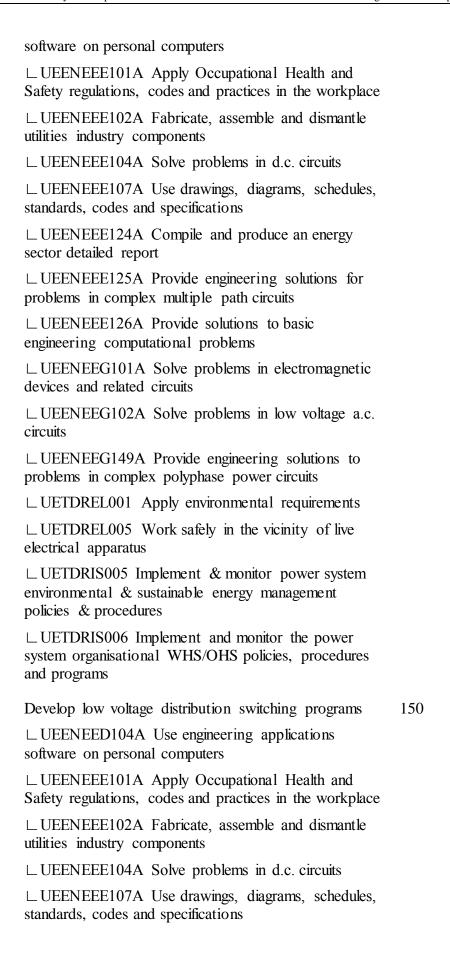
UETDRSO003

Coordinate power system operations in a regulated energy market Common Unit Group ∟ UEENEED104A Use engineering applications software on personal computers LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A 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 LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits ∟ UETDREL001 Apply environmental requirements ∟ UETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs Distribution and Sub-transmission Pathway Unit Group ∟ UETDRSO001 Coordinate high voltage distribution and sub-transmission networks ∟ UETDRSO005 Develop high voltage distribution and sub-transmission switching programs Transmission Pathway Unit Group

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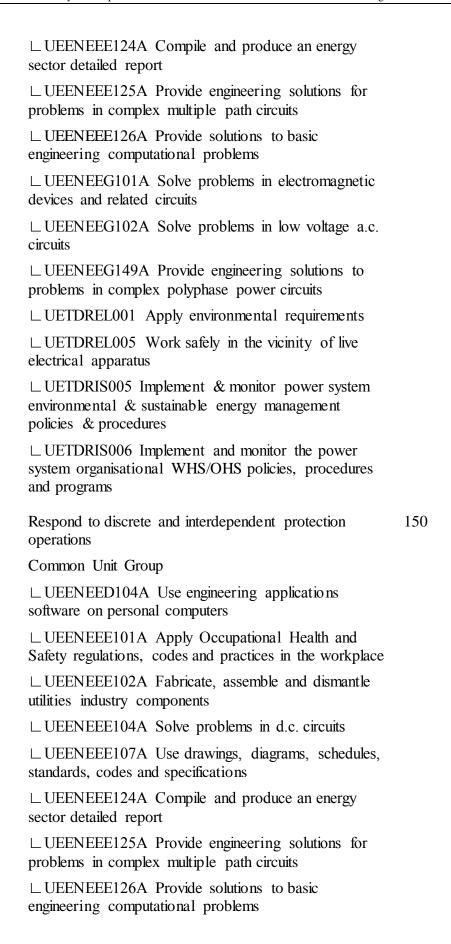
	∟ UETDRSO002 Coordinate high voltage transmission network	
	∟ UETDRSO004 Develop and evaluate power systems transmission switching programs	
UETDRSO004	Develop and evaluate power systems transmission switching programs	150
	☐ UEENEED104A Use engineering applications software on personal computers	
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟ UEENEEE104A Solve problems in d.c. circuits	
	☐ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	☐ UEENEEE124A Compile and produce an energy sector detailed report	
	☐ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
	☐ UEENEEE126A Provide solutions to basic engineering computational problems	
	∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	☐ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	☐ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
	∟ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
UETDRSO005	Develop high voltage distribution and sub-transmission switching programs	150
	☐ UEENEED104A Use engineering applications	

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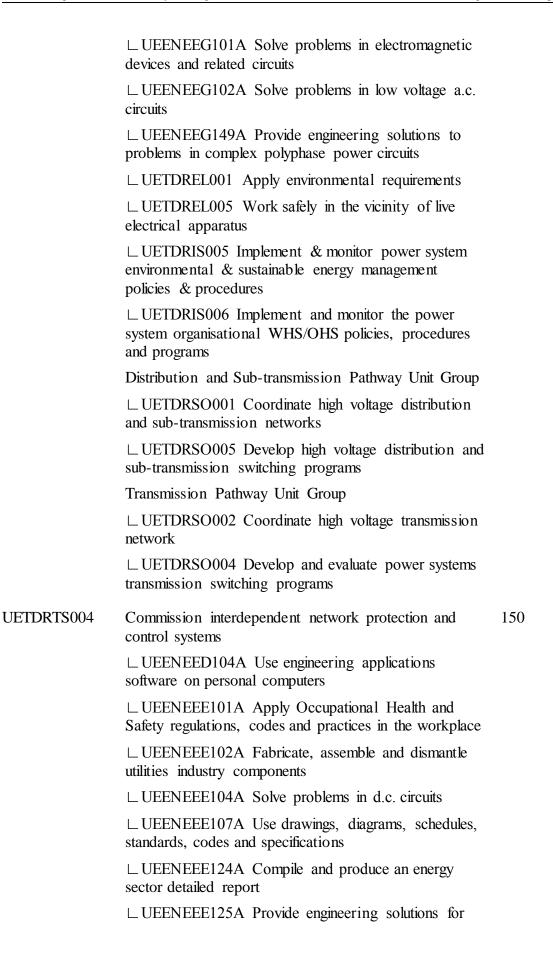
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UETDRSO006

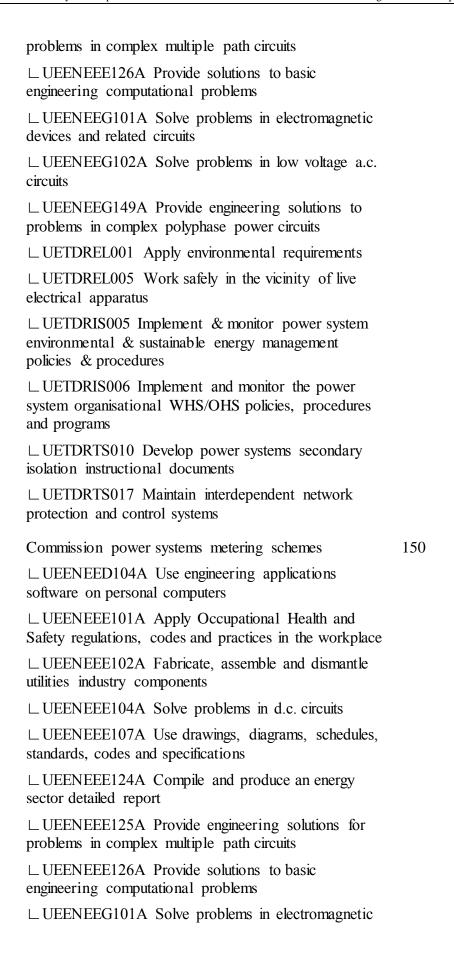


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UETDRSO011



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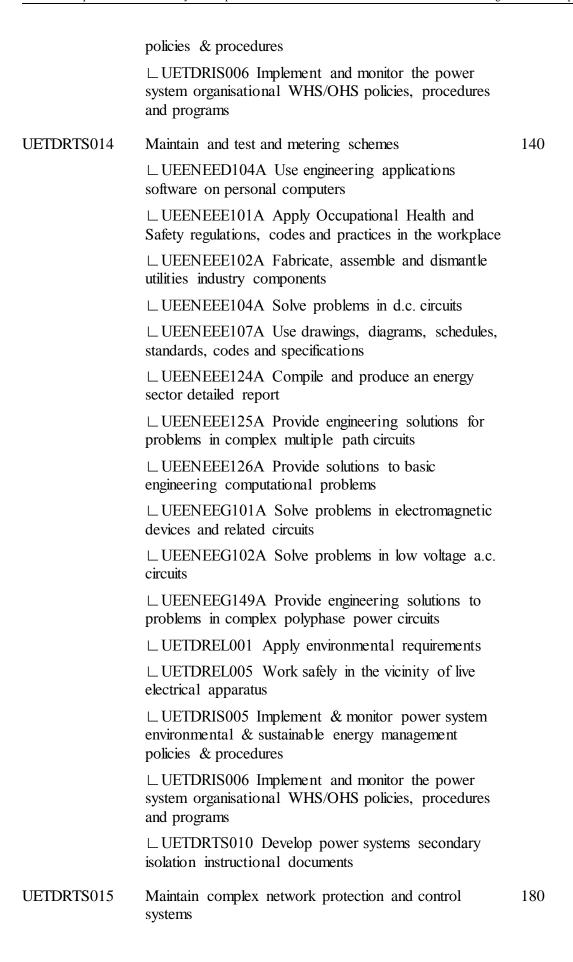
devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits LUEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits ∟ UETDREL001 Apply environmental requirements ∟ UETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs ∟ UETDRTS010 Develop power systems secondary isolation instructional documents ∟ UETDRTS014 Maintain and test and metering schemes Develop power systems secondary isolation instructional 150 documents ∟ 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 ∟ 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 LUEENEEG102A Solve problems in low voltage a.c. circuits

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UETDRTS011

LUEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits ∟ UETDREL001 Apply environmental requirements ∟ UETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs 150 Install and maintain power system communication equipment ∟ UEENEED104A Use engineering applications software on personal computers LUEENEE101A 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 LUEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications □ UEENEEE124A Compile and produce an energy sector detailed report LUEENEE125A Provide engineering solutions for problems in complex multiple path circuits ∟ UEENEEE126A Provide solutions to basic engineering computational problems LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits LUEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits ∟ UETDREL001 Apply environmental requirements LUETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management

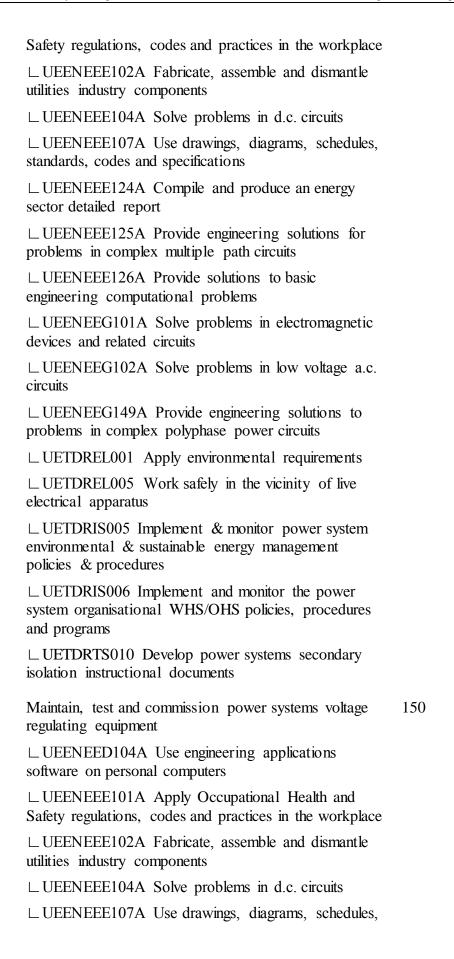
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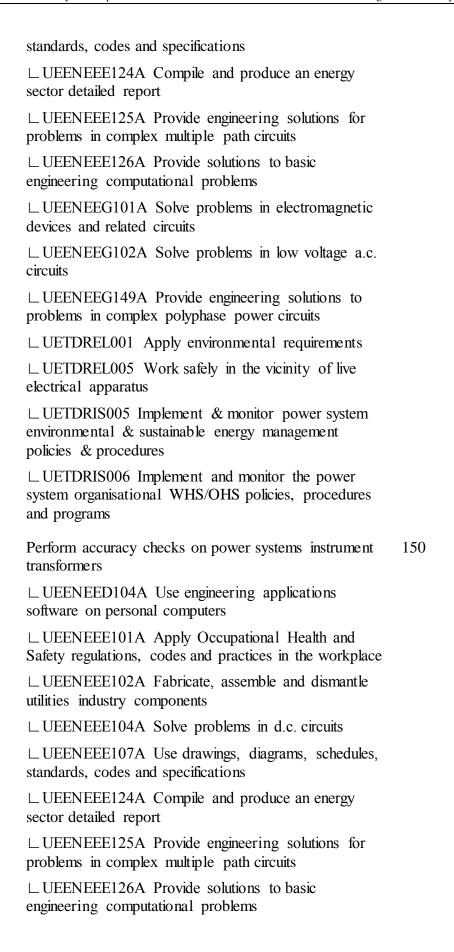
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☐ UEENEED104A Use engineering applications software on personal computers
☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components
∟ UEENEEE104A Solve problems in d.c. circuits
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☐ UEENEEE124A Compile and produce an energy sector detailed report
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☐ UEENEEE126A Provide solutions to basic engineering computational problems
∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits
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☐ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits
∟ UETDREL001 Apply environmental requirements
∟ UETDREL005 Work safely in the vicinity of live electrical apparatus
∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures
∟ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs
∟ UETDRTS017 Maintain interdependent network protection and control systems
∟UETDRTS010 Develop power systems secondary isolation instructional documents
Maintain interdependent network protection and control 150 systems
☐ UEENEED104A Use engineering applications software on personal computers
∟ UEENEEE101A Apply Occupational Health and

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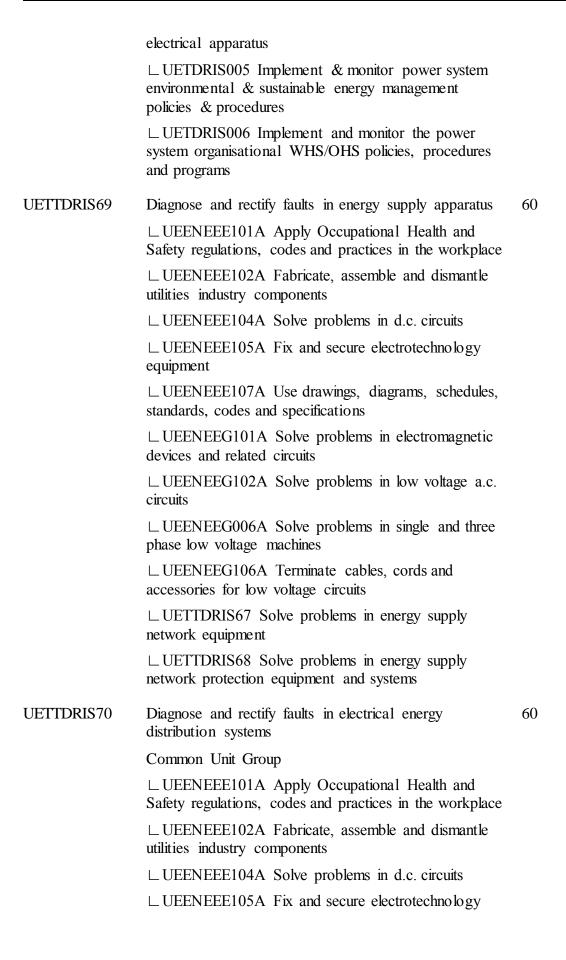


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UETDRTS023

∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
∟UEENEEG102A Solve problems in low voltage a.c. circuits	
☐ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
∟UETDREL001 Apply environmental requirements	
∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
☐ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures	
□ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
Repair, test and calibrate protection relays and meters	150
☐ UEENEED104A Use engineering applications software on personal computers	
☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
☐ UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
∟ UEENEEE104A Solve problems in d.c. circuits	
☐ UEENEEE124A Compile and produce an energy sector detailed report	
☐ UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits	
☐ UEENEEE126A Provide solutions to basic engineering computational problems	
☐ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
∟ UEENEEG102A Solve problems in low voltage a.c. circuits	
☐ UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits	
∟ UETDREL001 Apply environmental requirements	
LIETDRELOO5 Work safely in the vicinity of live	

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equipment ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UEENEEG006A Solve problems in single and three phase low voltage machines ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits ∟ UETTDRIS67 Solve problems in energy supply network equipment ∟ UETTDRIS68 Solve problems in energy supply network protection equipment and systems ∟ UETTDRIS69 Diagnose and rectify faults in energy supply apparatus Diagnose and rectify faults in electrical energy supply 60 transmission systems Common Unit Group LUEENEEE101A 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 LUEENEEG102A 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

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LUETTDRIS67 Solve problems in energy supply

network equipment

UETTDRIS71

UETTDRIS72

∟ UETTDRIS68 Solve problems in energy supply network protection equipment and systems ∟ UETTDRIS69 Diagnose and rectify faults in energy supply apparatus Diagnose and rectify faults in distributed generation 60 systems Common Unit Group ∟ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A 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 LUEENEEG102A Solve problems in low voltage a.c. circuits LUEENEEG006A Solve problems in single and three phase low voltage machines ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits ∟ UETTDRIS67 Solve problems in energy supply network equipment ∟ UETTDRIS68 Solve problems in energy supply network protection equipment and systems ∟ UETTDRIS69 Diagnose and rectify faults in energy supply apparatus 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

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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

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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.

Qualification Mapping Information

This qualification replaces and is equivalent to UET50319 Diploma of ESI - Power Systems Operations

Links

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

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