

UET40619 Certificate IV in ESI - Power Systems Network Infrastructure

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Modification History

Release 2. Removed deleted units UETTDRRT34, UETTDRRT35, UETTDRRT36 and UETTDRRT37 from the qualification due to zero enrolments.

Release 1. This is the first release of this qualification in the UET Transmission, Distribution and Rail Sector Training Package

Qualification Description

This qualification provides the skills and knowledge to work on power system network infrastructure in the electricity supply industry (ESI).

This qualification covers the selection, installation, set up, testing, fault finding, repair and maintenance of electrical systems and equipment in buildings and premises. It includes skills and knowledge needed for a career in installation and maintenance of network infrastructure in the transmission, distribution or rail traction in the electricity supply industry.

It includes Electrical Regulatory Authorities Council (ERAC) requirements for an Electrician's licence. Competency development activities in this qualification are subject to regulations directly related to licencing.

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 licencing 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 **1280 weighting points** comprising:

940 core weighting points listed below; plus

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

Choose a total of 340 **weighting points** elective units from the list below, of which between 0 and 50 **weighting points** can be taken from Group A; between 0 and 140 **weighting points** can be taken from Group B; and between 200 and 340 **weighting points** taken from Group C. You may select all your electives from this group.

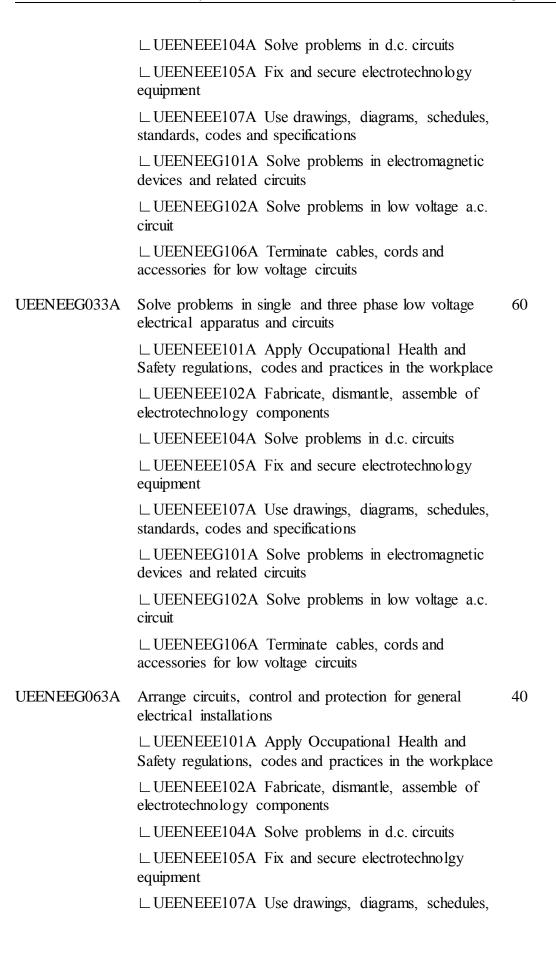
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Up to 50 weighting points of the general elective units Group A may be selected, with appropriate contextualisation, from any relevant nationally endorsed Training Package or accredited course, provided selected units contribute to the vocational outcome of the qualification. Previously assigned weighting points are listed in UET Transmission, Distribution and Rail Sector Training Package Companion Volume Implementation Guide, if not listed weighting points will be 10 points.

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

		Weighting Points
Core units		
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components L UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE104A	Solve problems in d.c. circuits LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	80
UEENEEE105A	Fix and secure electrotechnology equipment L UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications ∟ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work L UEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEG006A	Solve problems in single and three phase low voltage machines L UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace L UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components	80

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	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	
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE104A Solve problems in d.c. circuits	
UEENEEG102A	Solve problems in low voltage a.c. circuits	80
	□ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟ UEENEEE104A Solve problems in d.c. circuits	
	☐ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
UEENEEG103A	Install low voltage wiring and accessories	20
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components	
	∟UEENEEE104A Solve problems in d.c. circuits	
	∟ UEENEEE105A Fix and secure electrotechnology equipment	
	□ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	☐ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work	
	☐ UEENEEG006A Solve problems in single and three phase low voltage machines	
	∟ UEENEEG033A Solve problems in single and three phase electrical apparatus and circuits	
	☐ UEENEEG063A Arrange circuits, control and protection for general electrical installations	
	∟ UEENEEG101A Solve problems in electromagnetic	

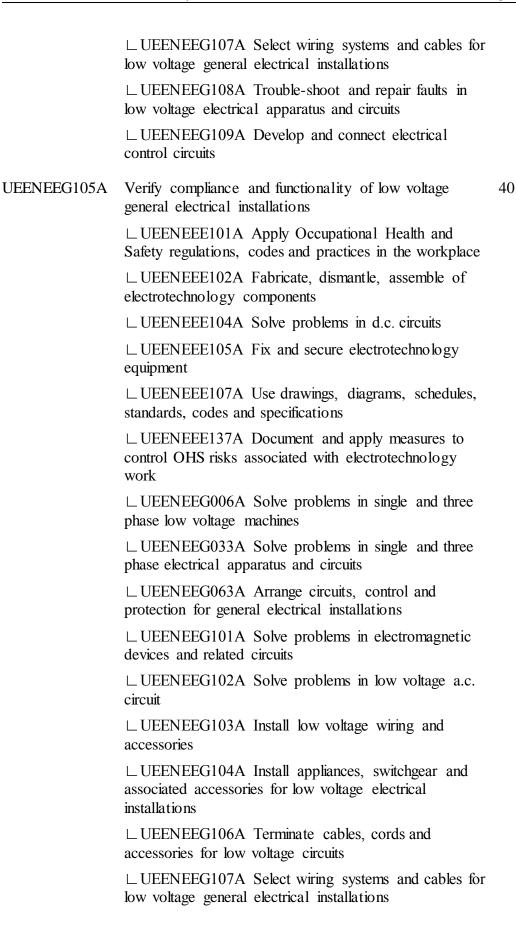
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UEENEEG104A

devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuit ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits LUEENEEG107A Select wiring systems and cables for low voltage general electrical installations LUEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits ∟ UEENEEG109A Develop and connect electrical control circuits Install appliances, switchgear and associated accessories for low voltage electrical installations LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A Fabricate, dismantle, assemble of electrotechnology components LUEENEEE104A Solve problems in d.c. circuits □ UEENEEE105A Fix and secure electrotechnology equipment LUEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEE137A Document and apply measures to control OHS risks associated with electrotechnology work ∟ UEENEEG006A Solve problems in single and three phase low voltage machines ∟ UEENEEG033A Solve problems in single and three phase electrical apparatus and circuits ∟ UEENEEG063A Arrange circuits, control and protection for general electrical installations LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuit ∟ UEENEEG103A Install low voltage wiring and accessories ∟ UEENEEG106A Terminate cables, cords and

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accessories for low voltage circuits



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40

∟ UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits

∟ UEENEEG109A Develop and connect electrical control circuits

Conditions: Those holding an 'Unrestricted Electrician's Licence' or equivalent issued in an Australian State or Territory meet the requirements of this unit and its prerequisite requirements.

A 'licensed electrician' applying for an 'electrical contractors licence' may be required to undertake this unit to demonstrate their currency with verification of compliance requirements. In this case they are deemed to have met the prerequisites for this unit provided that: they hold a current 'electricians licence' or its equivalent issued in an Australian State or Territory and have recently been in permanent employment as a licensed electrician sufficient to evidence current knowledge of applicable standards and regulations.

UEENEEG106A

Terminate cables, cords and accessories for low voltage circuits

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

∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components

∟ UEENEEE105A Fix and secure electrotechnology equipment

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

UEENEEG107A

Select wiring systems and cables for low voltage general 60 electrical installations

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

∟ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components

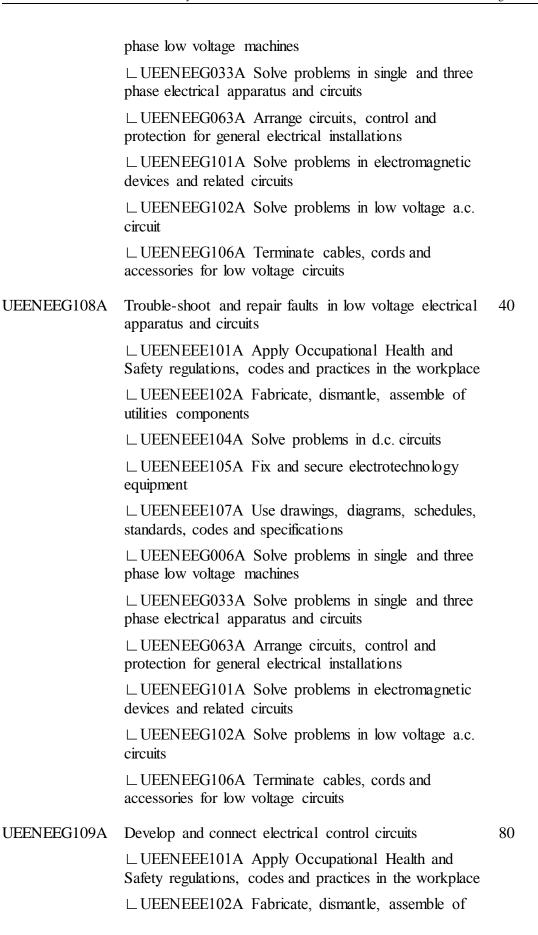
∟ UEENEEE104A Solve problems in d.c. circuits

∟ UEENEEE105A Fix and secure electrotechnology equipment

LUEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

∟ UEENEEG006A Solve problems in single and three

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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	
	☐ UEENEEG006A Solve problems in single and three phase low voltage machines	
	☐ UEENEEG063A Arrange circuits, control and protection for general electrical installations	
	☐ 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	
UEENEEK 142A	Apply environmentally and sustainable procedures in the	20
	energy sector	
UETTDREL16	Working safely near live electrical apparatus	20
UETTDREL16 UETTDRIS62		20
	Working safely near live electrical apparatus Implement and monitor the power system organisational	
	Working safely near live electrical apparatus Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	
	Working safely near live electrical apparatus Implement and monitor the power system organisational WHS/OHS policies, procedures and programs Common Unit Group LUEENEEE101A Apply Occupational Health and	
	Working safely near live electrical apparatus Implement and monitor the power system organisational WHS/OHS policies, procedures and programs Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUETTDREL16 Working safely near live electrical	
UETTDRIS62	Working safely near live electrical apparatus Implement and monitor the power system organisational WHS/OHS policies, procedures and programs Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUETTDREL16 Working safely near live electrical apparatus Implement & monitor power system environmental &	30
UETTDRIS62	Working safely near live electrical apparatus Implement and monitor the power system organisational WHS/OHS policies, procedures and programs Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUETTDREL16 Working safely near live electrical apparatus Implement & monitor power system environmental & sustainable energy management policies & procedures	30
UETTDRIS62	Working safely near live electrical apparatus Implement and monitor the power system organisational WHS/OHS policies, procedures and programs Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUETTDREL16 Working safely near live electrical apparatus Implement & monitor power system environmental & sustainable energy management policies & procedures Electrotechnology Pathway Unit Group LUEENEEK142A Apply environmentally and	30

Group A: Imported and common elective units

Weighting Points

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Implement workplace information system	40	
Lead effective workplace relationships	50	
Lead team effectiveness	50	
Implement operational plan	40	
Implement continuous improvement	40	
Group B: Qualification elective units		
Install, set up and commission interval metering L UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace L UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components L UEENEEE104A Solve problems in d.c. circuits L UEENEEE105A Fix and secure electrotechnology equipment L UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications L UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work L UEENEEG006A Solve problems in single and three phase low voltage machines L UEENEEG033A Solve problems in single and three phase electrical apparatus and circuits L UEENEEG063A Arrange circuits, control and protection for general electrical installations L UEENEEG101A Solve problems in electromagnetic devices and related circuits L UEENEEG102A Solve problems in low voltage a.c. circuit L UEENEEG103A Install low voltage wiring and accessories L UEENEEG106A Terminate cables, cords and accessories for low voltage circuits.	20	
☐ UEENEEG107A Select wiring systems and cables for		
	Lead effective workplace relationships Lead team effectiveness Implement operational plan Implement continuous improvement cation elective units Install, set up and commission interval metering LUENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A Fabricate, dismantle, assemble of electrotechnology components LUEENEEE104A Solve problems in d.c. circuits LUEENEEE105A Fix and secure electrotechnology equipment LUEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work LUEENEEG006A Solve problems in single and three phase low voltage machines LUEENEEG033A Solve problems in single and three phase electrical apparatus and circuits LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuit LUEENEEG103A Install low voltage wiring and accessories LUEENEEG106A Terminate cables, cords and accessories for low voltage circuits	

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UETTDRIS43

low voltage general electrical installations ∟ UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits LUEENEEG109A Develop and connect electrical control circuits ∟ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations Perform low voltage field switching operation to a given 50 schedule Electrica1 Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEE104A Solve problems in d.c. circuits ∟ UEENEEE105A Fix and secure electrotechnology equipment LUEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEG101A Solve problems in electromagnetic devices and related circuits ∟ UEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETTDREL16 Working safely near live electrical apparatus Transmission Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRTP26 Install transmission structures and associated hardware ∟ UETTDRTP27 Maintain transmission structures and associated hardware

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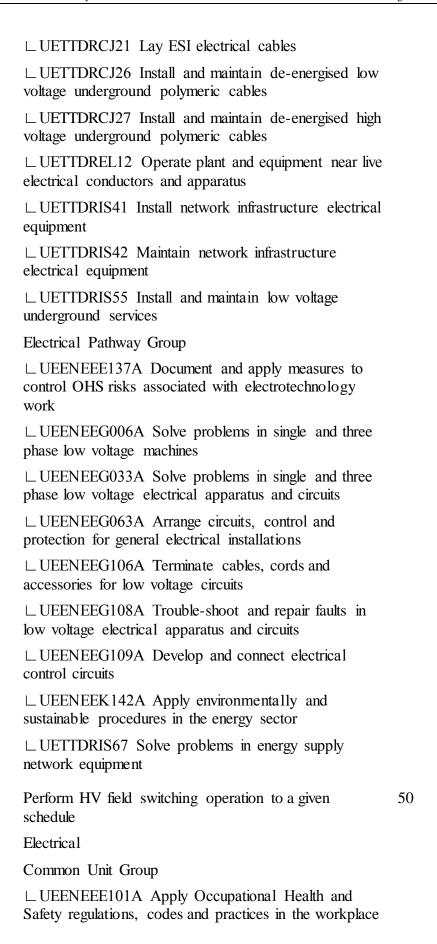
∟ UETTDRTP29 Install and maintain transmission

overhead conductors and cables Distribution Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures ∟ UETTDRDP12 Maintain overhead energised low voltage conductors and cables LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRIS56 Install and maintain low voltage overhead services Rail Traction Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRRT21 Install traction overhead wiring systems ∟ UETTDRRT22 Maintain traction overhead wiring systems ∟ UETTDRRT23 Install rail traction bonds LUETTDRRT27 Install overhead traction components and equipment ∟ UETTDRRT28 Maintain overhead traction components and equipment Distribution Cable Jointing Pathway Group

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∟ UETTDREL11 Apply sustainable energy and

environmental procedures



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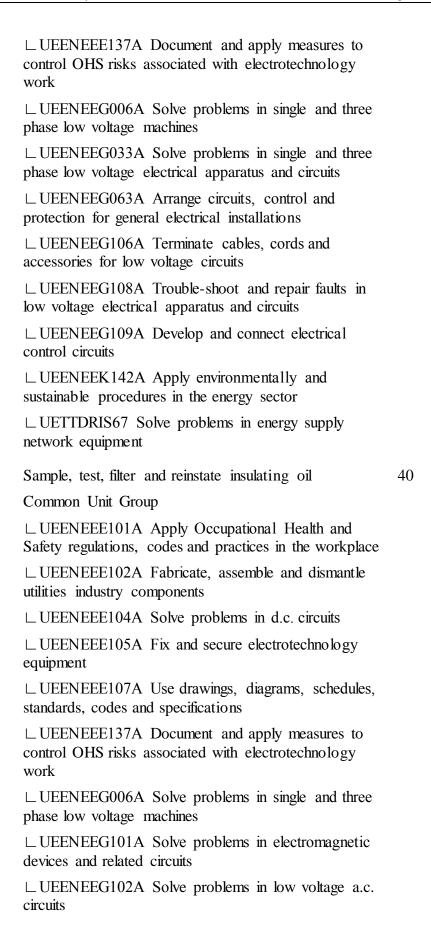
UETTDRIS44

∟ 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 ∟ UEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETTDREL16 Working safely near live electrical apparatus Transmission Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRTP26 Install transmission structures and associated hardware LUETTDRTP27 Maintain transmission structures and associated hardware ∟ UETTDRTP29 Install and maintain transmission overhead conductors and cables Distribution Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDRDP12 Maintain overhead energised low voltage conductors and cables LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware

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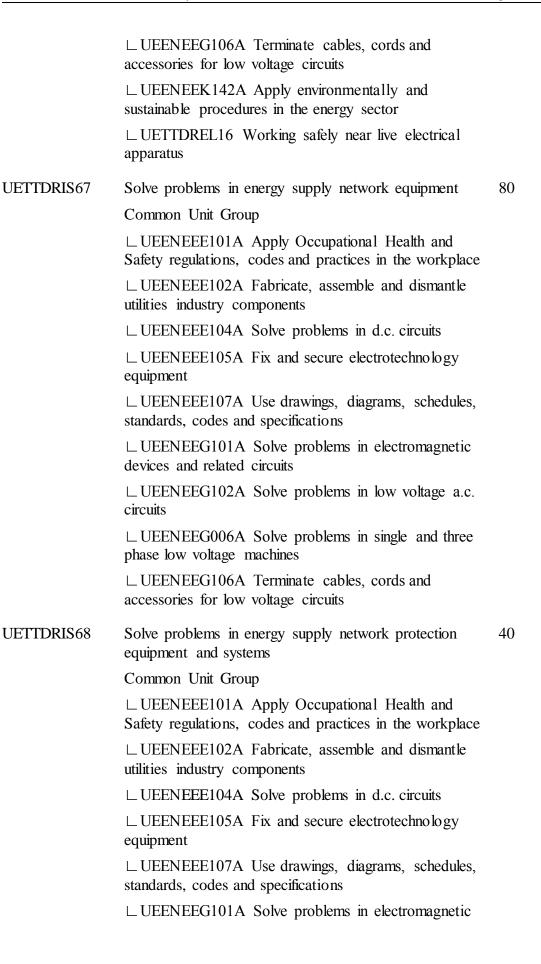
∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟UETTDRIS56 Install and maintain low voltage overhead services Rail Traction Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRRT21 Install traction overhead wiring systems ∟ UETTDRRT22 Maintain traction overhead wiring systems ∟ UETTDRRT23 Install rail traction bonds ∟ UETTDRRT27 Install overhead traction components and equipment ∟ UETTDRRT28 Maintain overhead traction components and equipment Distribution Cable Jointing Pathway Group ∟ UETTDRCJ21 Lay ESI electrical cables ∟ UETTDRCJ26 Install and maintain de-energised low voltage underground polymeric cables ∟ UETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟UETTDRIS55 Install and maintain low voltage underground services Electrical Pathway Group

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UETTDRIS47



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UETTDRSB39

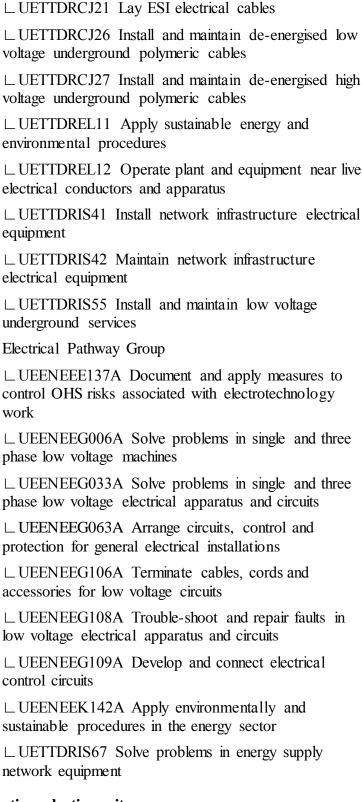
devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UEENEEG006A Solve problems in single and three phase low voltage machines ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits LUETTDRIS67 Solve problems in energy supply network equipment Perform power system substation switching operation to 50 a given schedule **Electrical** Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEE102A 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 ∟ UETTDREL16 Working safely near live electrical apparatus Transmission Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRTP26 Install transmission structures and associated hardware

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∟ UETTDRTP27 Maintain transmission structures and

associated hardware ∟ UETTDRTP29 Install and maintain transmission overhead conductors and cables Distribution Overhead Pathway Group ∟ UETTDRDP12 Maintain overhead energised low voltage conductors and cables ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRIS56 Install and maintain low voltage overhead services Rail Traction Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRRT21 Install traction overhead wiring systems ∟ UETTDRRT22 Maintain traction overhead wiring systems ∟ UETTDRRT23 Install rail traction bonds ∟ UETTDRRT27 Install overhead traction components and equipment ∟ UETTDRRT28 Maintain overhead traction components and equipment Distribution Cable Jointing Pathway Group

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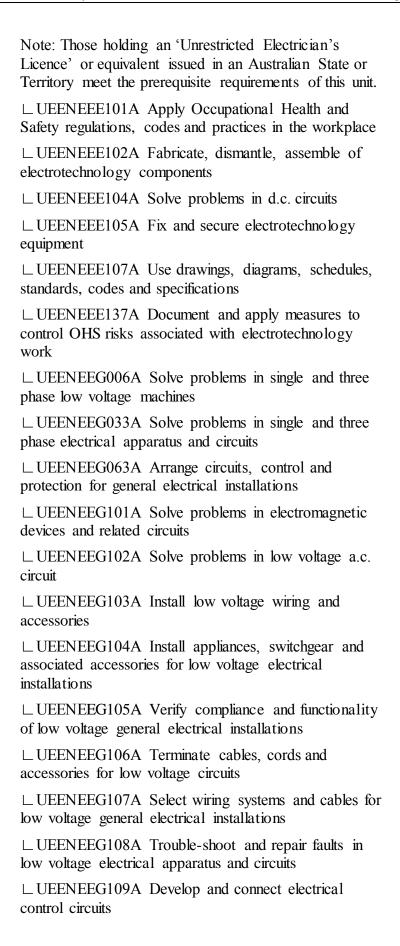
Group C: Qualification elective units

Weighting Points

20

UEENEEG076A Install and replace low voltage current transformer metering

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UETTDRCJ33 Install and maintain network infrastructure LV underground cables Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A Solve problems in d.c. circuits □ UEENEE105A Fix and secure electrotechnology equipment LUEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work ∟ UEENEEG006A Solve problems in single and three phase low voltage machines ∟ UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits ∟ UEENEEG063A Arrange circuits, control and protection for general electrical installations LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UEENEEG103A Install low voltage wiring and accessories ∟ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations ∟ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations ∟ UEENEEG106A Terminate cables, cords and

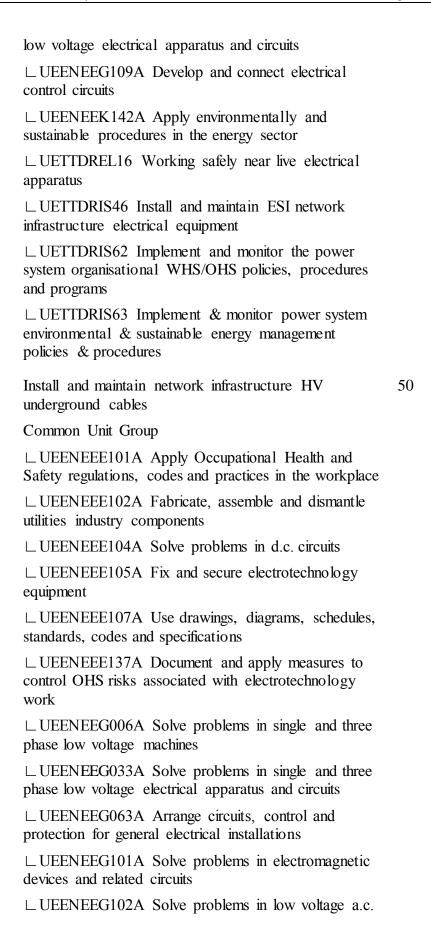
accessories for low voltage circuits

low voltage general electrical installations

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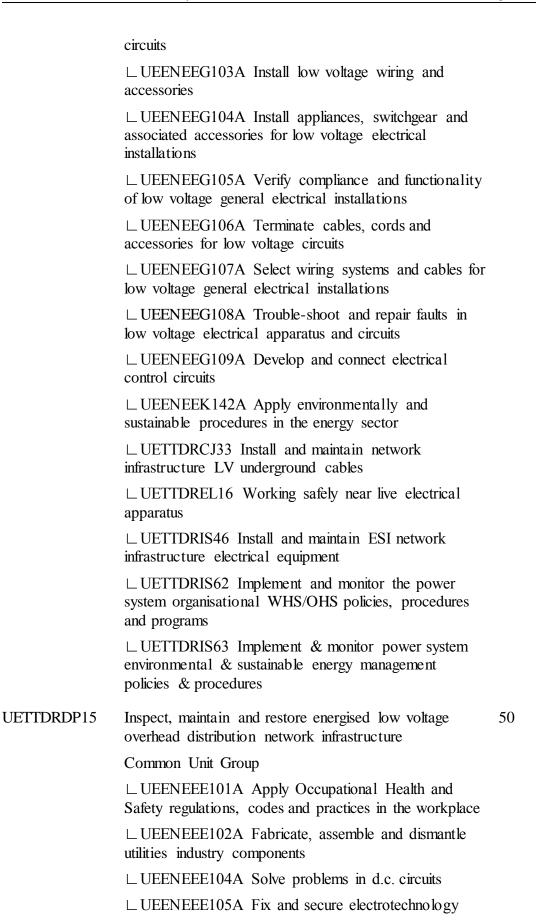
∟ UEENEEG107A Select wiring systems and cables for

∟ UEENEEG108A Trouble-shoot and repair faults in



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UETTDRCJ34



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equipment ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work LUEENEEG006A Solve problems in single and three phase low voltage machines LUEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits ∟ UEENEEG063A Arrange circuits, control and protection for general electrical installations ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits □ UEENEEG102A Solve problems in low voltage a.c. circuits ∟ UEENEEG103A Install low voltage wiring and accessories ∟ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations LUEENEEG105A Verify compliance and functionality of low voltage general electrical installations LUEENEEG106A Terminate cables, cords and accessories for low voltage circuits ∟ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations ∟ UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits ∟ UEENEEG109A Develop and connect electrical control circuits ∟ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector LUETTDREL16 Working safely near live electrical apparatus ∟ UETTDRIS46 Install and maintain ESI network infrastructure electrical equipment ∟ UETTDRIS62 Implement and monitor the power

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system organisational WHS/OHS policies, procedures

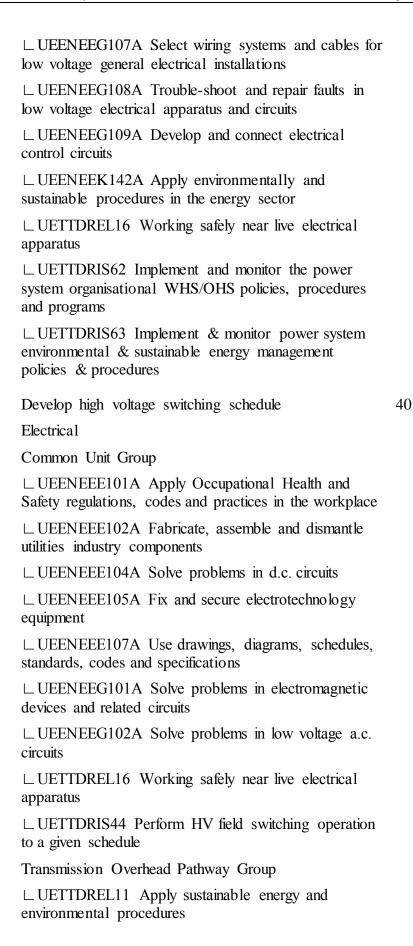
and programs

UETTDRIS46

∟ UETTDRIS63 Implement & monitor power system environmental & sustainable energy management policies & procedures LUETTDRIS67 Solve problems in energy supply network equipment Install and maintain ESI network infrastructure electrical 40 equipment Common Unit Group LUEENEE101A 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 LUEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work ∟ UEENEEG006A Solve problems in single and three phase low voltage machines ∟ UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits ∟ UEENEEG063A Arrange circuits, control and protection for general electrical installations ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟ UEENEEG102A Solve problems in low voltage a.c. circuits ∟UEENEEG103A Install low voltage wiring and accessories ∟ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations LUEENEEG105A Verify compliance and functionality of low voltage general electrical installations ∟ UEENEEG106A Terminate cables, cords and

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accessories for low voltage circuits



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UETTDRIS48

LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRTP26 Install transmission structures and associated hardware ∟ UETTDRTP27 Maintain transmission structures and associated hardware ∟ UETTDRTP29 Install and maintain transmission overhead conductors and cables Distribution Overhead Pathway Group LUETTDREL11 Apply sustainable energy and environmental procedures ∟ UETTDRDP12 Maintain overhead energised low voltage conductors and cables LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRIS56 Install and maintain low voltage overhead services Rail Traction Pathway Group LUETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRRT21 Install traction overhead wiring systems ∟ UETTDRRT22 Maintain traction overhead wiring

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systems ∟ UETTDRRT23 Install rail traction bonds LUETTDRRT27 Install overhead traction components and equipment ∟ UETTDRRT28 Maintain overhead traction components and equipment Distribution Cable Jointing Pathway Group ∟ UETTDRCJ21 Lay ESI electrical cables ∟ UETTDRCJ26 Install and maintain de-energised low voltage underground polymeric cables ∟ UETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS55 Install and maintain low voltage underground services Electrical Pathway Group LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work LUEENEEG006A Solve problems in single and three phase low voltage machines ∟ UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits ∟UEENEEG063A Arrange circuits, control and protection for general electrical installations ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits LUEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits ∟ UEENEEG109A Develop and connect electrical control circuits ∟ UEENEEK142A Apply environmentally and

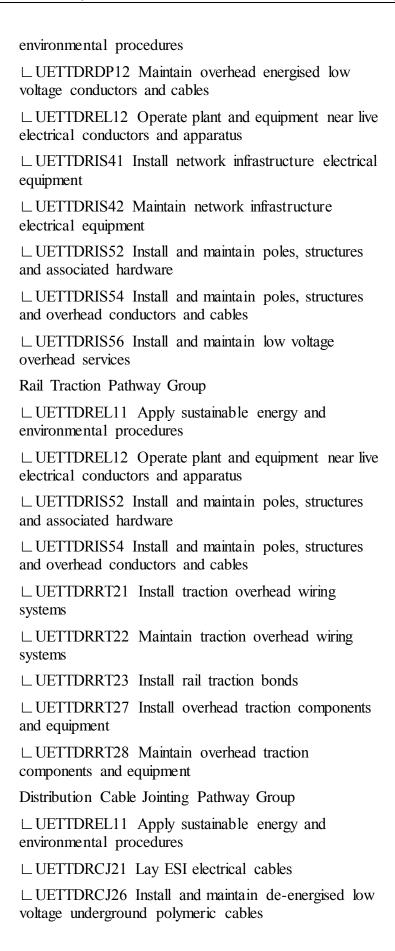
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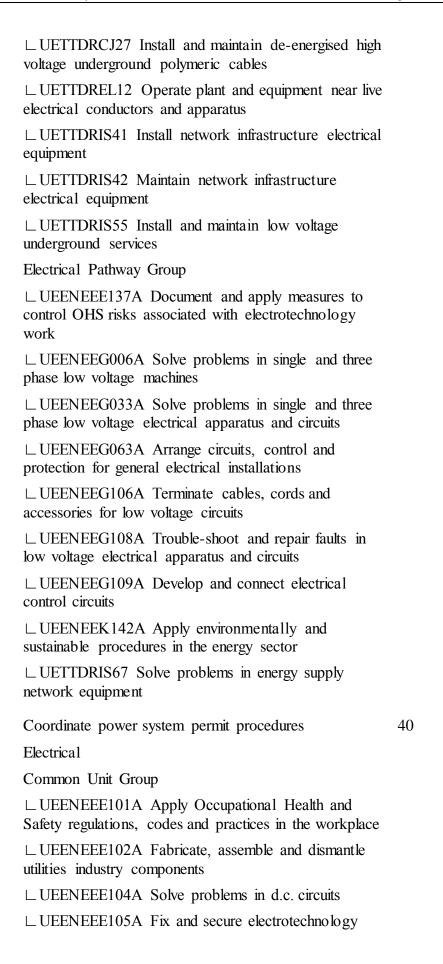
UETTDRIS49

sustainable procedures in the energy sector LUETTDRIS67 Solve problems in energy supply network equipment Develop low voltage switching schedule **Electrical** Common Unit Group LUEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEE104A Solve problems in d.c. circuits ∟ UEENEEE105A Fix and secure electrotechnology equipment LUEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETTDREL16 Working safely near live electrical apparatus ∟ UETTDRIS43 Perform low voltage field switching operation to a given schedule Transmission Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRTP26 Install transmission structures and associated hardware LUETTDRTP27 Maintain transmission structures and associated hardware ∟ UETTDRTP29 Install and maintain transmission overhead conductors and cables Distribution Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and

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UETTDRIS50

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 LUETTDREL16 Working safely near live electrical apparatus Transmission Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus LUETTDRIS44 Perform HV field switching operation to a given schedule ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRTP26 Install transmission structures and associated hardware LUETTDRTP27 Maintain transmission structures and associated hardware ∟ UETTDRTP29 Install and maintain transmission overhead conductors and cables Distribution Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures ∟ UETTDRDP12 Maintain overhead energised low voltage conductors and cables LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS43 Perform low voltage field switching operation to a given schedule ∟UETTDRIS52 Install and maintain poles, structures

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and associated hardware

∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟UETTDRIS56 Install and maintain low voltage overhead services Rail Traction Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRRT21 Install traction overhead wiring systems ∟ UETTDRRT22 Maintain traction overhead wiring systems ∟UETTDRRT23 Install rail traction bonds ∟ UETTDRRT27 Install overhead traction components and equipment ∟ UETTDRRT28 Maintain overhead traction components and equipment LUETTDRRT30 Perform to a given schedule rail traction switching operations Distribution Cable Jointing Pathway Group ∟ UETTDRCJ21 Lay ESI electrical cables ∟ UETTDRCJ26 Install and maintain de-energised low voltage underground polymeric cables ∟ UETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS43 Perform low voltage field switching

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operation to a given schedule ∟ UETTDRIS55 Install and maintain low voltage underground services Electrical Pathway Group LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work LUEENEEG006A Solve problems in single and three phase low voltage machines LUEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits ∟ UEENEEG063A Arrange circuits, control and protection for general electrical installations ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits LUEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits ∟ UEENEEG109A Develop and connect electrical control circuits ∟ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector LUETTDRIS67 Solve problems in energy supply network equipment ∟ UETTDRSB39 Perform power system substation switching operation to a given schedule Coordinate and direct power system switching schedules 40 **Electrical** Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A 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

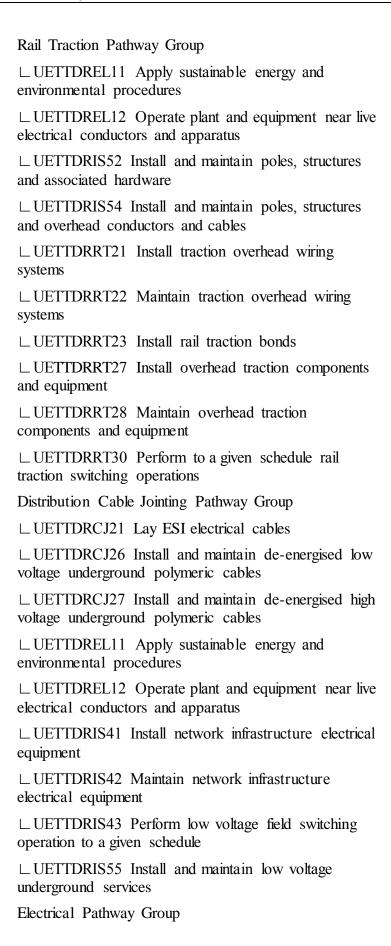
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LUEENEEG101A Solve problems in electromagnetic

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devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits LUETTDREL16 Working safely near live electrical apparatus Transmission Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS44 Perform HV field switching operation to a given schedule ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRTP26 Install transmission structures and associated hardware LUETTDRTP27 Maintain transmission structures and associated hardware ∟ UETTDRTP29 Install and maintain transmission overhead conductors and cables Distribution Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures ∟ UETTDRDP12 Maintain overhead energised low voltage conductors and cables LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟UETTDRIS43 Perform low voltage field switching operation to a given schedule ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRIS56 Install and maintain low voltage overhead services

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LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work ∟ UEENEEG006A Solve problems in single and three phase low voltage machines ∟ UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits ∟ UEENEEG063A Arrange circuits, control and protection for general electrical installations ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits LUEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits ∟ UEENEEG109A Develop and connect electrical control circuits ∟ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector LUETTDRIS67 Solve problems in energy supply network equipment ∟ UETTDRSB39 Perform power system substation switching operation to a given schedule Perform power system substation switching operation to 50 a given schedule **Electrical** Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A 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 LUEENEEG101A Solve problems in electromagnetic devices and related circuits ∟ UEENEEG102A Solve problems in low voltage a.c. circuits

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LUETTDREL16 Working safely near live electrical

UETTDRSB39

apparatus

Transmission Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRTP26 Install transmission structures and associated hardware LUETTDRTP27 Maintain transmission structures and associated hardware ∟ UETTDRTP29 Install and maintain transmission overhead conductors and cables Distribution Overhead Pathway Group LUETTDRDP12 Maintain overhead energised low voltage conductors and cables LUETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRIS56 Install and maintain low voltage overhead services Rail Traction Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures

electrical conductors and apparatus

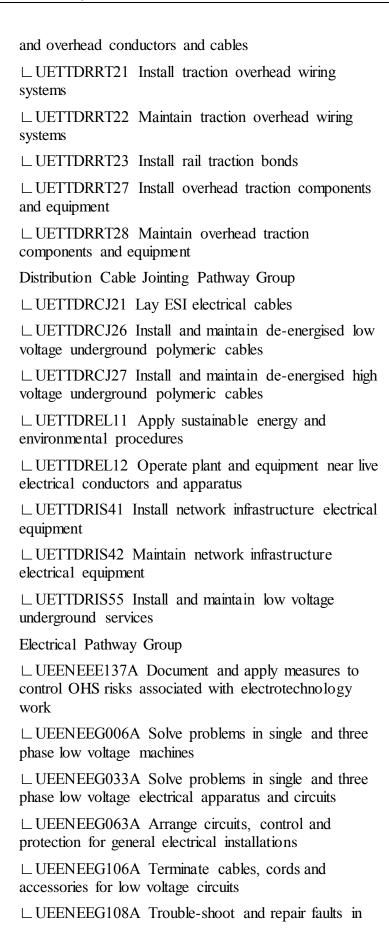
and associated hardware

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LUETTDREL12 Operate plant and equipment near live

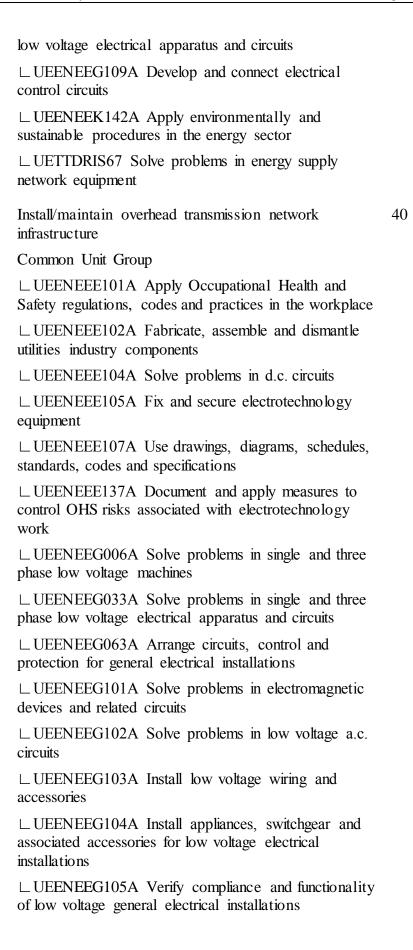
∟ UETTDRIS52 Install and maintain poles, structures

∟ UETTDRIS54 Install and maintain poles, structures

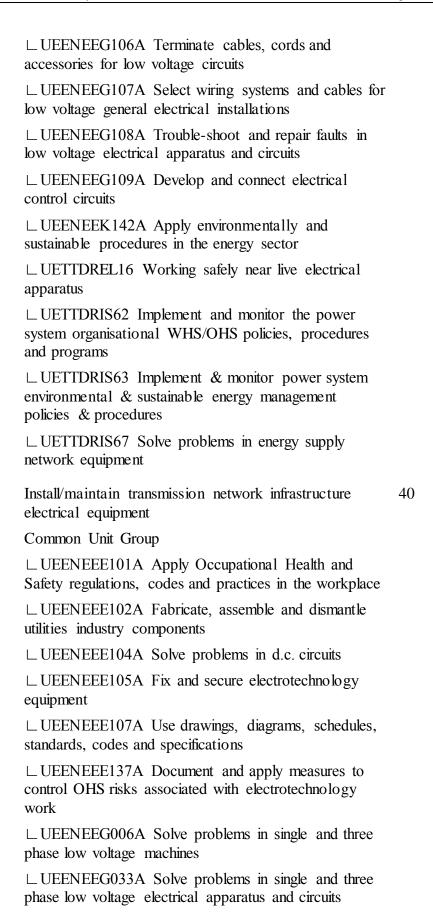


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UETTDRTP34

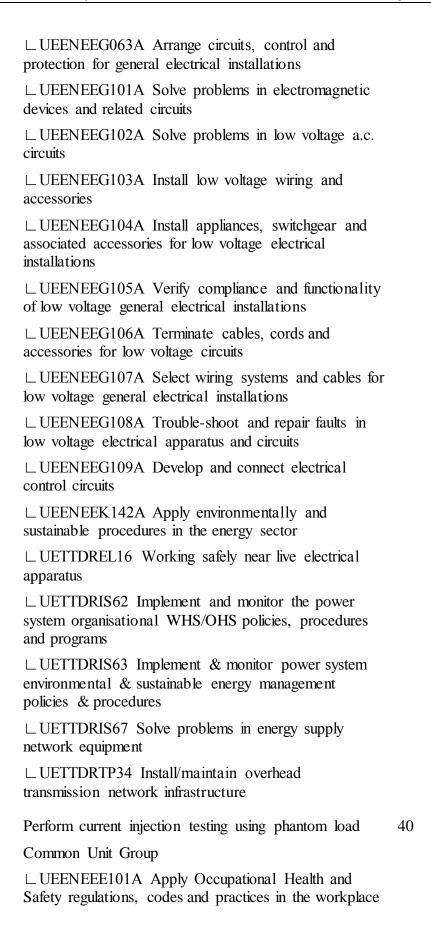


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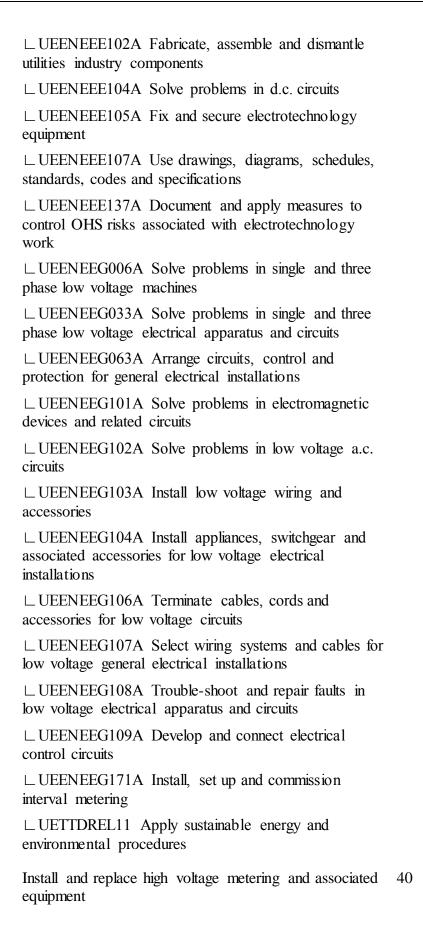
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UETTDRTS38

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
- ∟ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work
- ∟ UEENEEG006A Solve problems in single and three phase low voltage machines
- ∟ UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits
- ☐ UEENEEG063A Arrange circuits, control and protection for general electrical installations
- ∟ UEENEEG076A Install and replace low voltage current transformer metering
- ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits
- ∟ UEENEEG102A Solve problems in low voltage a.c. circuits
- ∟UEENEEG103A Install low voltage wiring and accessories
- □ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations
- ∟ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations
- ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
- ∟ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations
- ∟ UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits
- LUEENEEG109A Develop and connect electrical

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control circuits

☐ UEENEEG171A Install, set up and commission interval metering

☐ UETTDREL11 Apply sustainable energy and environmental procedures

☐ UETTDREL16 Working safely near live electrical apparatus

☐ UETTDRTS37 Perform current injection testing using phantom load

Qualification Mapping Information

This qualification replaces and is equivalent to UET40612 Certificate IV in ESI - Power Systems Network Infrastructure

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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