

# **UET40419 Certificate IV in ESI - Network Systems**

Release 1

# **UET40419 Certificate IV in ESI - Network Systems**

## **Modification History**

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

## **Qualification Description**

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

This qualification covers work on the network systems in the specific fields of live line transmission, live line distribution, live line rail traction and/or installation and maintenance of specialised underground cables. These roles may lead or supervise work teams and work in transmission, distribution, rail or cable jointing.

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:

540 core weighting points listed below; plus

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

Choose a total of 740 **weighting points** elective units from the list below, of which between 0 and 60 **weighting points** can be taken from Group A; between 0 and 420 **weighting points** can be taken from Group B; and between 320 and 740 **weighting points** taken from Group C. You may select all your electives from this group.

**Up to 60 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

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are complied with.

Core units		Weighting Points
CPCCLDG3001A	Licence to perform dogging	20
TLILIC0005	Licence to operate a boom-type elevating work platform (boom length 11 metres or more)	40
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components	40
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
UEENEEE104A	Solve problems in d.c. circuits	80
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
UEENEEE105A	Fix and secure electrotechnology equipment	20
	☐ 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	
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	
UETTDREL11	Apply sustainable energy and environmental procedures	20

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UETTDREL12	Operate plant and equipment near live electrical conductors and apparatus	40
	Common Unit Group	
	□ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UETTDREL16 Working safely near live electrical apparatus	
UETTDREL16	Working safely near live electrical apparatus	20
UETTDRIS62	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	
UETTDRIS63	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	
	∟UETTDREL11 Apply sustainable energy and environmental procedures	

#### Group A: Imported and common elective units Weighting Points Operate and maintain chainsaws AHCMOM213 20 Implement workplace information system BSBINM401 40 BSBLDR402 Lead effective workplace relationships 50 BSBLDR403 Lead team effectiveness 50 BSBMGT402 Implement operational plan 40

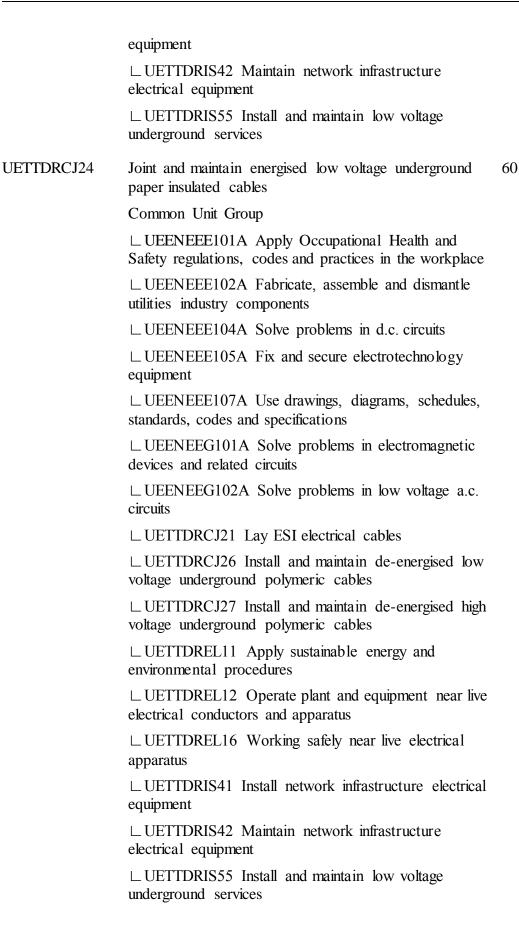
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BSBMGT403	Implement continuous improvement	40
CPCCLRG3001A	Licence to perform rigging basic level  ∟ CPCCLDG3001A Licence to perform dogging	40
Group B: Qualification elective units		Weighting Points
UETTDRCJ21	Lay ESI electrical cables  Common Unit Group  L UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace  L UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications  L UETTDREL11 Apply sustainable energy and environmental procedures  L UETTDREL16 Working safely near live electrical apparatus	20
UETTDRCJ22	Install and maintain de-energised low voltage underground paper insulated 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  LUEENEEE105A Fix and secure electrotechnology equipment  LUEENEEE107A 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  LUETTDRCJ21 Lay ESI electrical cables  LUETTDRCJ26 Install and maintain de-energised low voltage underground polymeric cables  LUETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables  LUETTDREL11 Apply sustainable energy and	40

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environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus LUETTDREL16 Working safely near live electrical apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS55 Install and maintain low voltage underground services **UETTDRCJ23** Install and maintain de-energised high voltage 60 underground paper insulated cables 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 LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETTDRCJ21 Lay ESI electrical cables LUETTDRCJ26 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 LUETTDREL16 Working safely near live electrical apparatus ∟ UETTDRIS41 Install network infrastructure electrical

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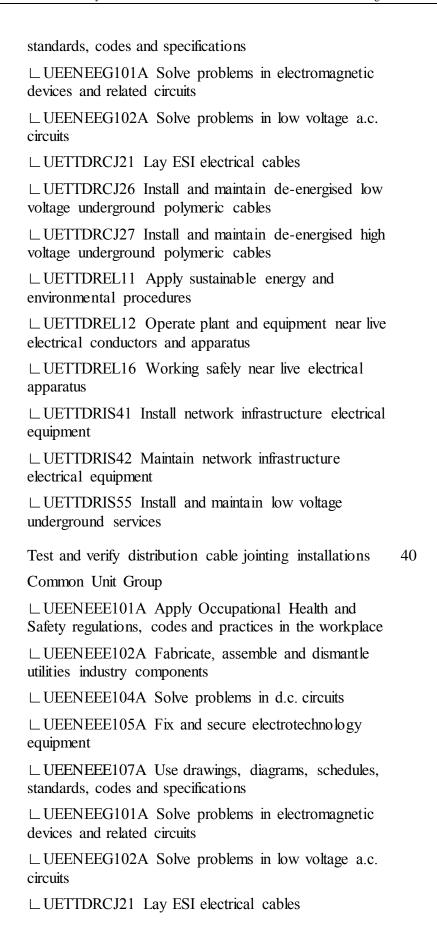
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# UETTDRCJ25 Perform straight through high voltage paper insulated to 50 polymeric transition joint Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A Solve problems in d.c. circuits ∟ UEENEEE105A Fix and secure electrotechnology equipment ∟ UEENEE107A 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 ∟ 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 LUETTDREL16 Working safely near live electrical apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS55 Install and maintain low voltage underground services **UETTDRCJ26** Install and maintain de-energised low voltage 50 underground polymeric cables Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

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	∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟ UEENEEE105A Fix and secure electrotechnology equipment	
	∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UETTDRCJ21 Lay ESI electrical cables	
	∟ UETTDREL11 Apply sustainable energy and environmental procedures	
	∟ UETTDREL16 Working safely near live electrical apparatus	
UETTDRCJ27	Install and maintain de-energised high voltage underground polymeric cables	50
	Common Unit Group	
	☐ 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	
	∟ UETTDRCJ21 Lay ESI electrical cables	
	∟ UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL16 Working safely near live electrical apparatus	
UETTDRCJ28	Joint and maintain energised low voltage underground polymeric cables	50
	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,	

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**UETTDRCJ99** 

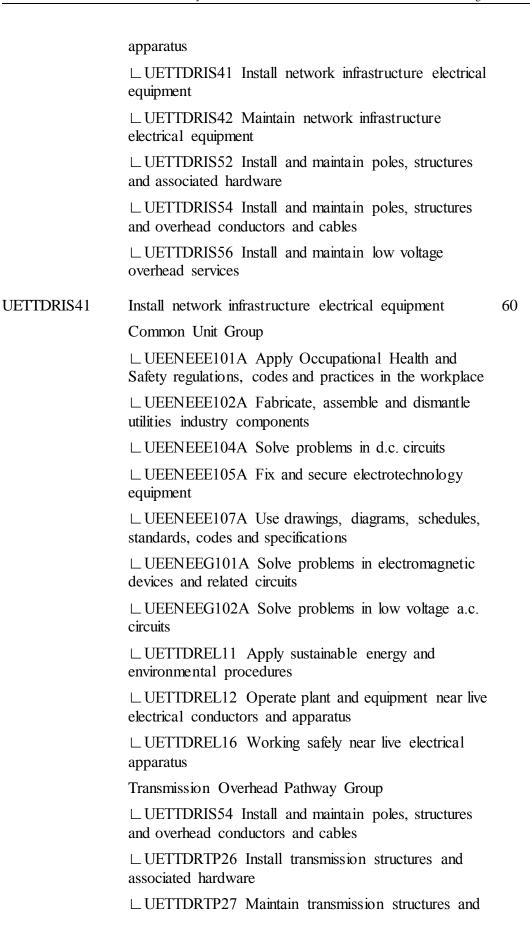
	voltage underground polymeric cables	
	∟ UETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables	
	∟ UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
	∟ UETTDREL16 Working safely near live electrical apparatus	
	∟UETTDRIS41 Install network infrastructure electrical equipment	
	∟ UETTDRIS42 Maintain network infrastructure electrical equipment	
	∟ UETTDRIS55 Install and maintain low voltage underground services	
UETTDRDP11	Inspect overhead poles-structures and electrical apparatus	50
	Common Unit Group	
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	☐ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UETTDREL11 Apply sustainable energy and environmental procedures	
	∟ UETTDREL16 Working safely near live electrical apparatus	
UETTDRDP12	Maintain overhead energised low voltage conductors and cables	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,	

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**UETTDRDP99** 

standards, codes and specifications ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus LUETTDREL16 Working safely near live electrical apparatus ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables Test and verify distribution overhead installations 40 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 LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETTDRDP11 Inspect overhead poles-structures and electrical apparatus LUETTDRDP12 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 LUETTDREL16 Working safely near live electrical

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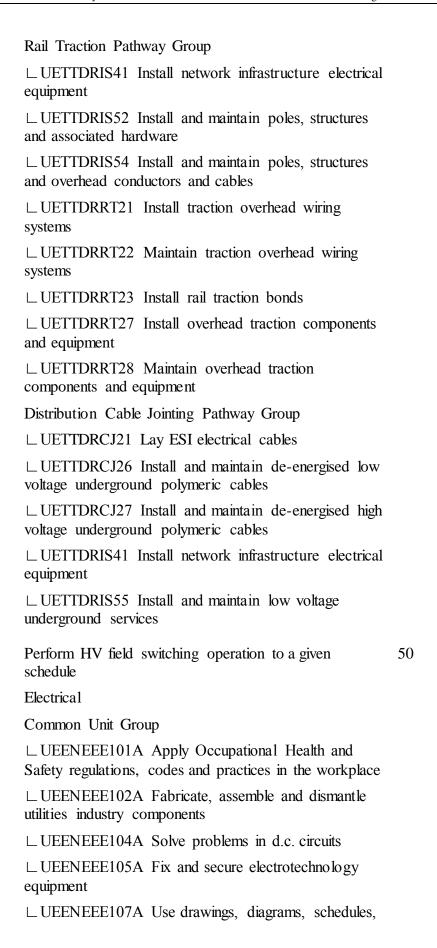
associated hardware
∟ UETTDRTP29 Install and maintain transmission overhead conductors and cables
Distribution Overhead Pathway Group
∟ UETTDRDP12 Maintain overhead energised low voltage conductors and cables
∟ UETTDRIS52 Install and maintain poles, structures and associated hardware
∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables
∟ UETTDRIS56 Install and maintain low voltage overhead services
Rail Traction Pathway Group
∟ 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
∟ UETTDRIS55 Install and maintain low voltage underground services
Maintain network infrastructure electrical equipment 60
Common Unit Group
☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

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UETTDRIS42

☐ 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
☐ UETTDREL11 Apply sustainable energy and environmental procedures
∟ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus
∟UETTDREL16 Working safely near live electrical apparatus
Transmission Overhead Pathway Group
∟ UETTDRIS41 Install network infrastructure electrical equipment
∟ 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
∟ UETTDRDP12 Maintain overhead energised low voltage conductors and cables
∟ UETTDRIS41 Install 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

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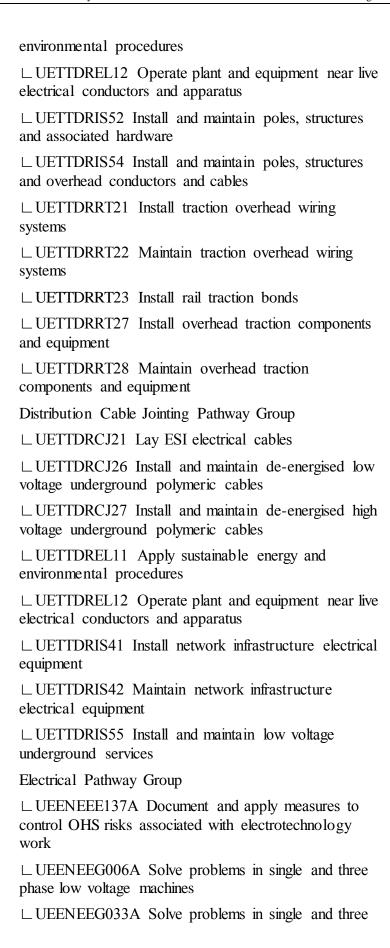


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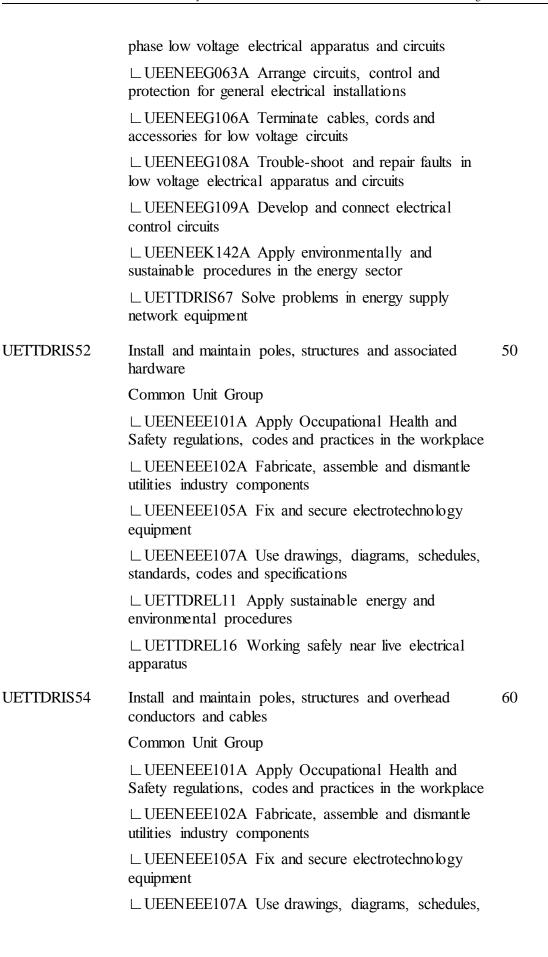
**UETTDRIS44** 

standards, codes and specifications ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits LUETTDREL16 Working safely near live electrical apparatus Transmission Overhead Pathway Group LUETTDREL11 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 ∟ 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

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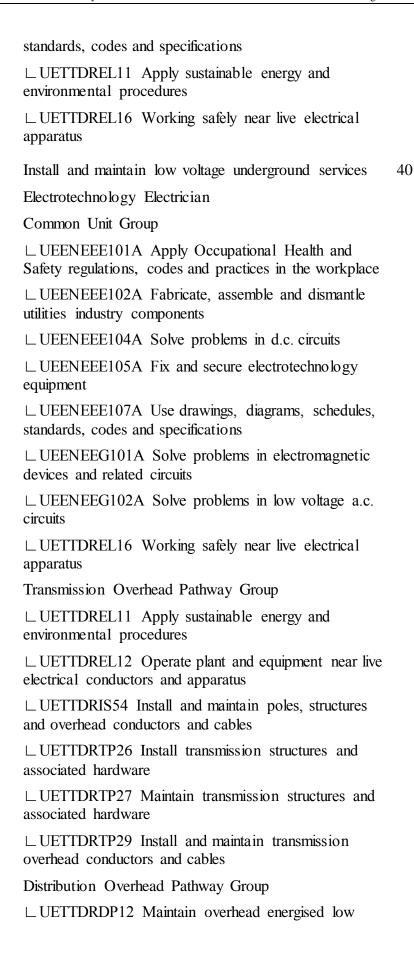


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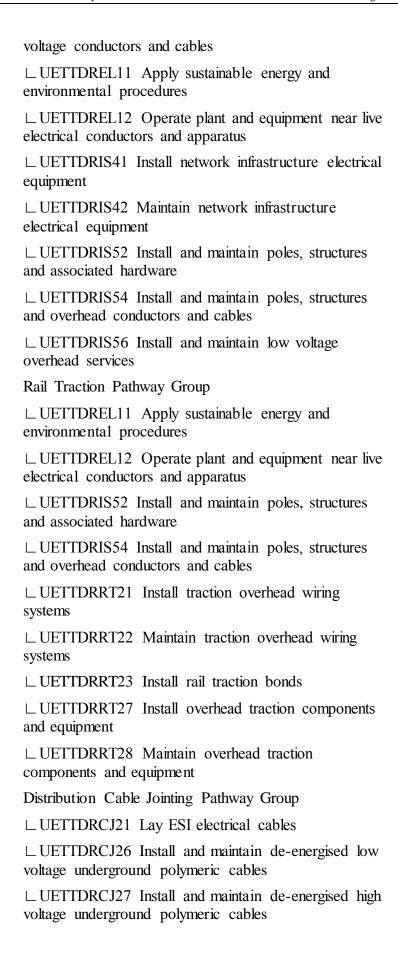


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**UETTDRIS55** 



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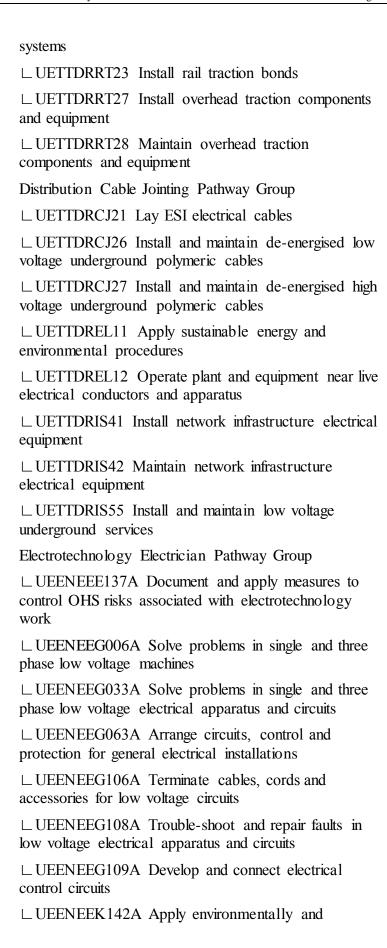
∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus Electrotechnology Electrician Pathway Group LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work ∟ UEENEEG006A 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 Install and maintain low voltage overhead services 40 Electrotechnology Electrician 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 ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c.

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**UETTDRIS56** 

circuits
∟UETTDREL16 Working safely near live electrical apparatus
Transmission Overhead Pathway Group
∟UETTDREL11 Apply sustainable energy and environmental procedures
$\hfill \hfill $
∟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
∟UETTDRDP12 Maintain overhead energised low voltage conductors and cables
∟UETTDREL11 Apply sustainable energy and environmental procedures
∟UETTDREL12 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
Rail Traction Pathway Group
∟UETTDREL11 Apply sustainable energy and environmental procedures
∟UETTDREL12 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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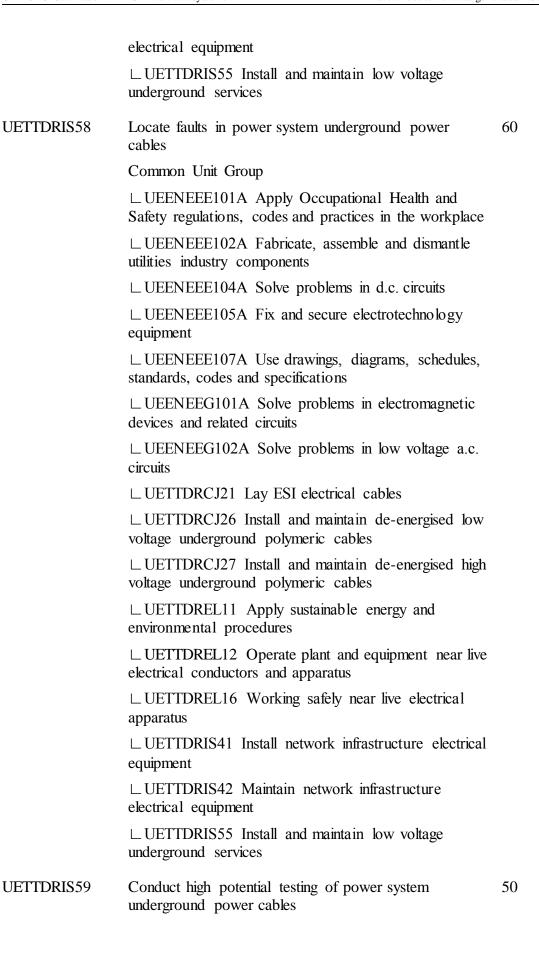
**UETTDRIS57** 

sustainable procedures in the energy sector ∟ UETTDRIS67 Solve problems in energy supply network equipment Conduct visual checking and treatment of power system 30 poles and structures Electrotechnology Systems Electrician 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 ∟ UEENEE107A 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 ∟UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus LUETTDREL16 Working safely near live electrical apparatus Transmission Overhead Pathway Group ∟ 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 ∟ UETTDRTP30 Inspect transmission overhead structures and electrical apparatus Distribution Overhead Pathway Group

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∟ UETTDRDP11 Inspect overhead poles-structures and electrical apparatus
□ UETTDRDP12 Maintain overhead energised low voltage conductors and cables
∟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
∟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
∟ UETTDRDP11 Inspect overhead poles-structures and electrical apparatus
∟UETTDRIS41 Install network infrastructure electrical equipment
∟ UETTDRIS42 Maintain network infrastructure

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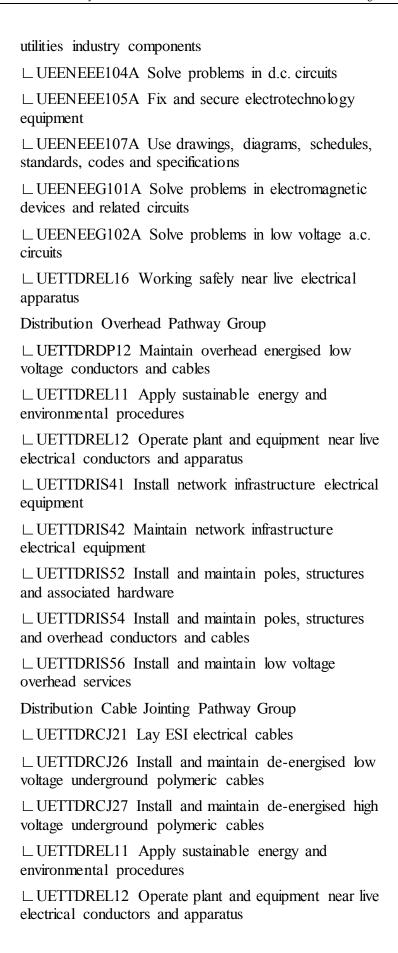


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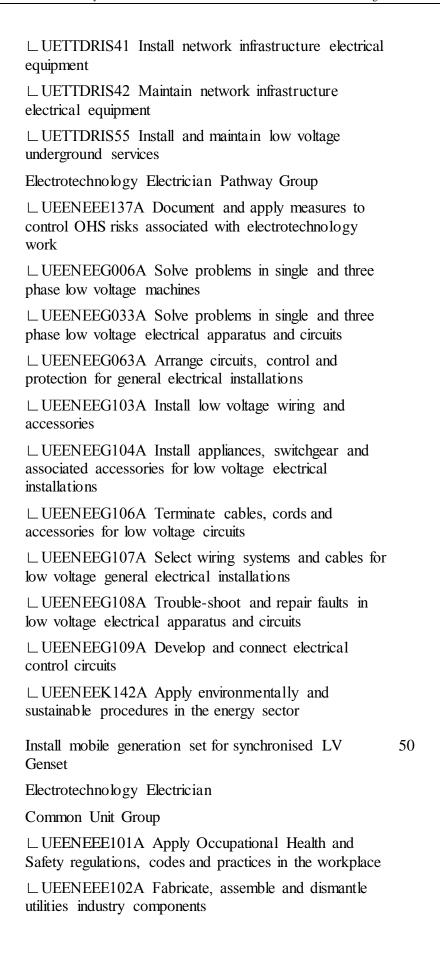
# Common Unit Group LUEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A Solve problems in d.c. circuits ∟ UEENEEE105A Fix and secure electrotechnology equipment LUEENEE107A 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 ∟ 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 LUETTDREL16 Working safely near live electrical apparatus ∟UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS55 Install and maintain low voltage underground services Install and replace power system energy meters and 50 associated equipment Electrotechnology Electrician Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A Fabricate, assemble and dismantle

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**UETTDRIS60** 



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**UETTDRIS61** 

∟ 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
∟UETTDREL16 Working safely near live electrical apparatus
Transmission Overhead Pathway Group
☐ UETTDREL11 Apply sustainable energy and environmental procedures
∟UETTDREL12 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
└ UETTDRDP12 Maintain overhead energised low voltage conductors and cables
☐ UETTDREL11 Apply sustainable energy and environmental procedures
∟UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus
$\label{eq:continuous} $$ \sqsubseteq 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

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∟ UETTDRIS56 Install and maintain low voltage overhead services Rail Traction Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures ∟ UETTDREL12 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 ∟ 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 LUETTDRCJ26 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 Electrotechnology Electrician Pathway Group LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology

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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

∟UEENEEG103A Install low voltage wiring and accessories

∟UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations

 $\bot$  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

∟ UEENEEG109A Develop and connect electrical control circuits

∟ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector

#### UETTDRRT21 Install tr

Install traction overhead wiring systems

50

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

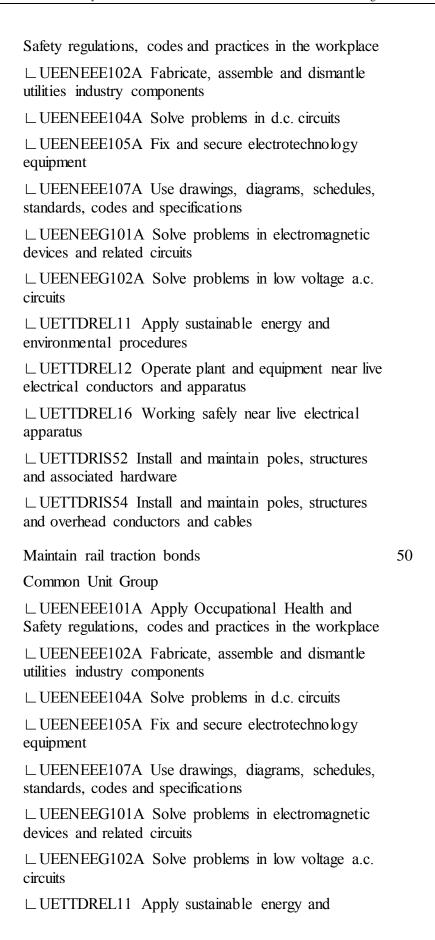
∟UEENEEG102A Solve problems in low voltage a.c. circuits

∟UETTDREL11 Apply sustainable energy and environmental procedures

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	∟ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
	∟ UETTDREL16 Working safely near live electrical apparatus	
	∟ UETTDRIS52 Install and maintain poles, structures and associated hardware	
	∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables	
UETTDRRT22	Maintain traction overhead wiring systems	60
	Common Unit Group	
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟ UEENEEE104A Solve problems in d.c. circuits	
	∟ UEENEEE105A Fix and secure electrotechnology equipment	
	∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟ UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟ UETTDREL11 Apply sustainable energy and environmental procedures	
	∟ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
	∟ UETTDREL16 Working safely near live electrical 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	
UETTDRRT23	Install rail traction bonds	40
	Common Unit Group	
	∟ UEENEEE101A Apply Occupational Health and	

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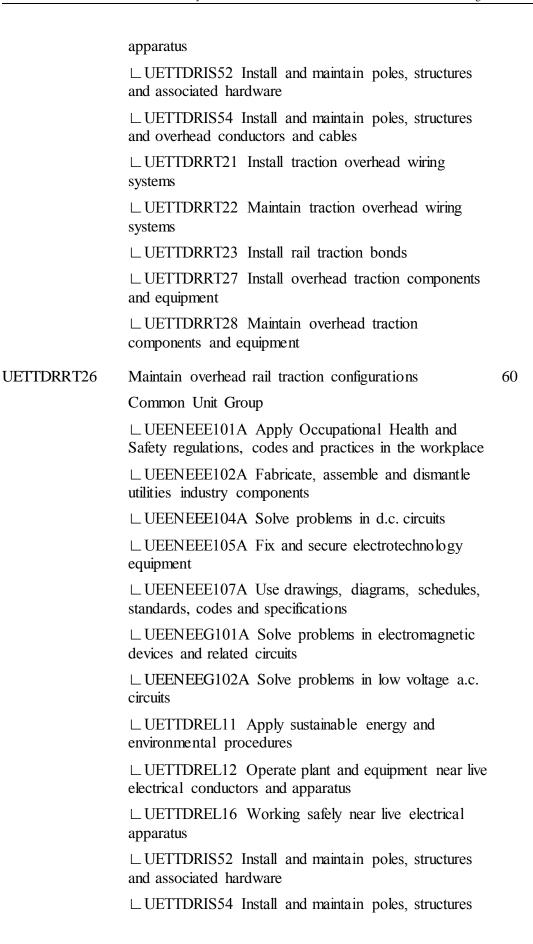


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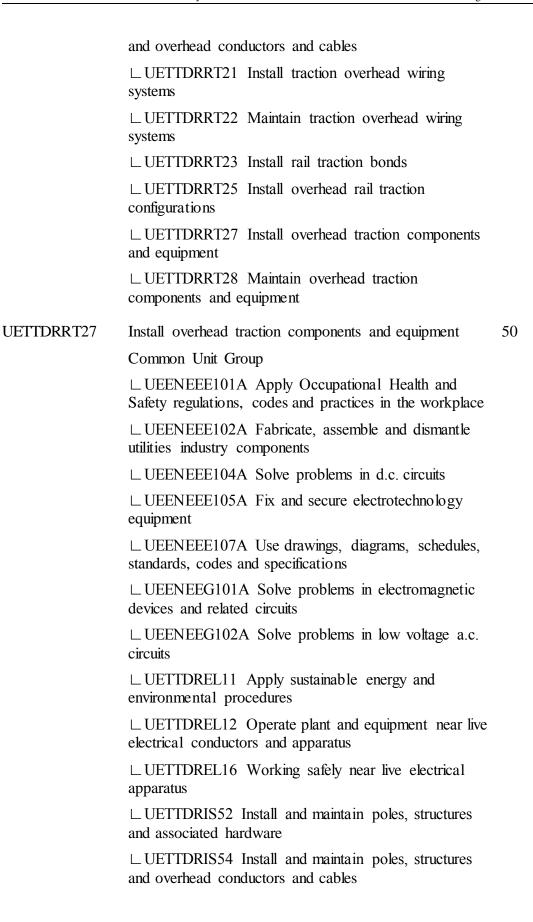
**UETTDRRT24** 

	environmental procedures	
	∟UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
	∟UETTDREL16 Working safely near live electrical 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	
UETTDRRT25	Install overhead rail traction configurations	50
	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	
	∟ 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	
	∟UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
	∟UETTDREL16 Working safely near live electrical	

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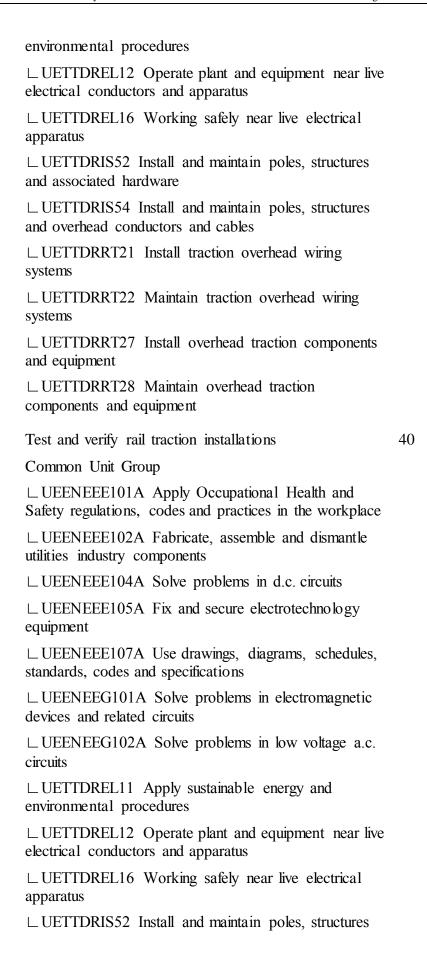
UETTDRRT28	Maintain overhead traction components and equipment	60
	Common Unit Group	
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	∟ UEENEEE104A Solve problems in 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	
	∟ UETTDREL11 Apply sustainable energy and environmental procedures	
	∟UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
	∟ UETTDREL16 Working safely near live electrical apparatus	
	∟ UETTDRIS52 Install and maintain poles, structures and associated hardware	
	∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables	
	∟ UETTDRRT27 Install overhead traction components and equipment	
UETTDRRT29	Operate rail road traction height access equipment	20
	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	

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☐ 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	
∟UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
∟UETTDREL16 Working safely near live electrical 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	
∟UETTDRRT27 Install overhead traction components and equipment	
∟ UETTDRRT28 Maintain overhead traction components and equipment	
Perform to a given schedule rail traction switching operations	50
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	
□ UETTDREL11 Apply sustainable energy and	

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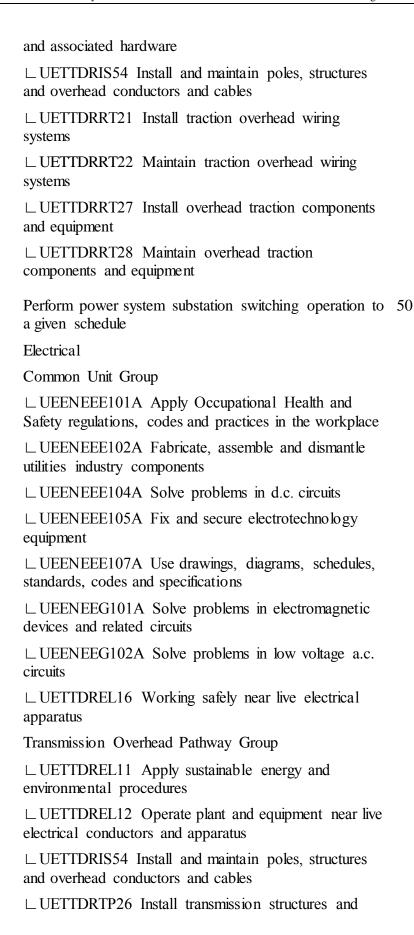
UETTDRRT30



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**UETTDRRT99** 

**UETTDRSB39** 



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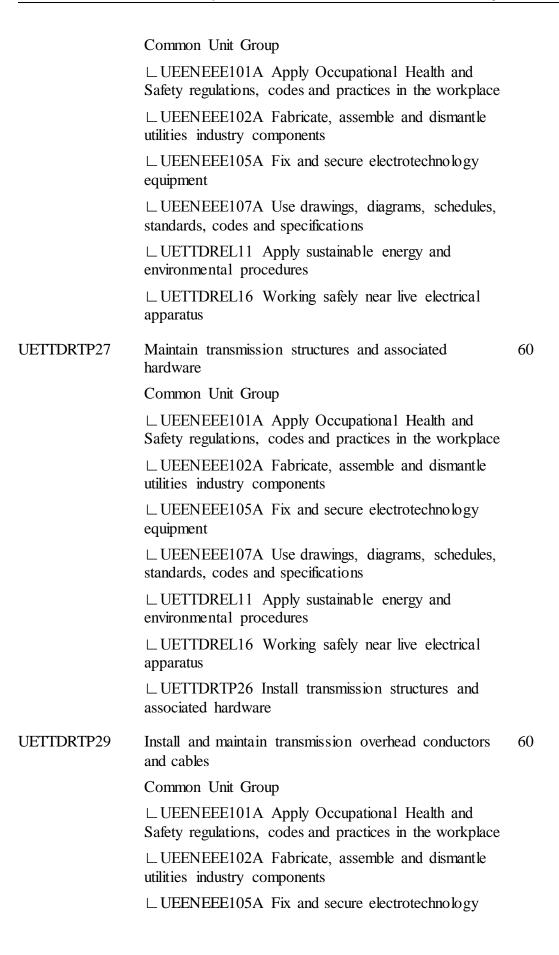
associated hardware LUETTDRTP27 Maintain transmission structures and associated hardware ∟ UETTDRTP29 Install and maintain transmission overhead conductors and cables Distribution Overhead Pathway Group ∟ UETTDRDP12 Maintain overhead energised low voltage conductors and cables ∟ UETTDREL11 Apply sustainable energy and environmental procedures ∟ UETTDREL12 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

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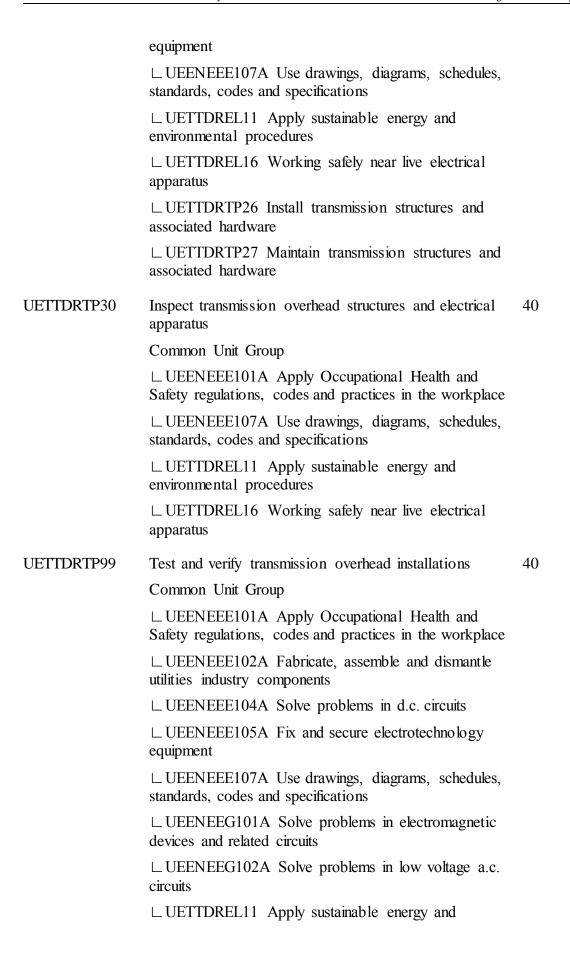
components and equipment Distribution Cable Jointing Pathway Group ∟ UETTDRCJ21 Lay ESI electrical cables ∟ UETTDRCJ26 Install and maintain de-energised low voltage underground polymeric cables ∟ UETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables ∟ UETTDREL11 Apply sustainable energy and environmental procedures ∟ UETTDREL12 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 ∟ 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 ∟ UETTDRIS67 Solve problems in energy supply network equipment

UETTDRTP26 Install transmission structures and associated hardware 60

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UETTDRVC29

environmental procedures	
∟UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
∟UETTDREL16 Working safely near live electrical 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	
∟UETTDRTP30 Inspect transmission overhead structures and electrical apparatus	
Control vegetation whilst performing linework	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	
∟ UETTDREL11 Apply sustainable energy and environmental procedures	
∟UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
∟UETTDREL16 Working safely near live electrical apparatus	
∟UETTDRIS52 Install and maintain poles, structures and associated hardware	
∟UETTDRIS54 Install and maintain poles, structures	

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#### and overhead conductors and cables

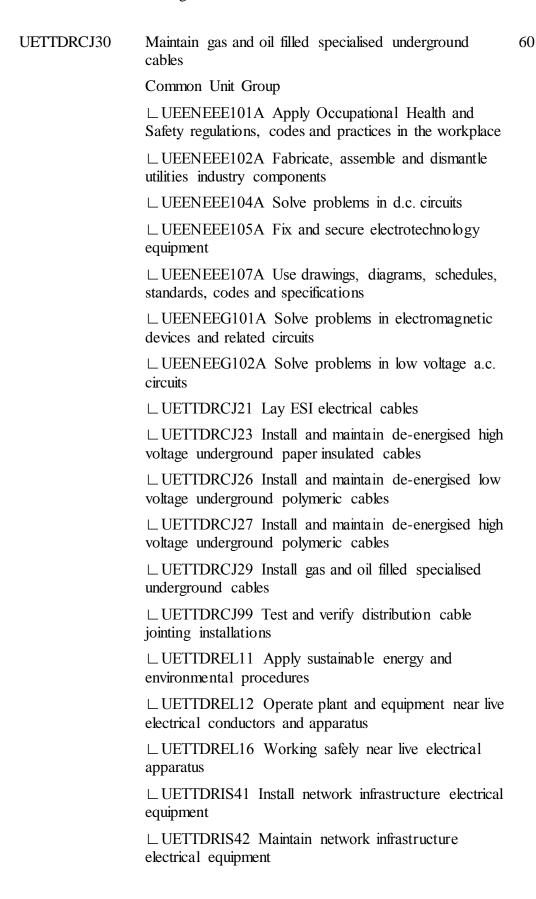
# **Group C: Qualification elective units**

### Weighting Points

UETTDRCJ29	Install gas and oil filled specialised underground cables 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
	∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits
	∟ UEENEEG102A Solve problems in low voltage a.c. circuits
	∟ UETTDRCJ21 Lay ESI electrical cables
	∟ UETTDRCJ23 Install and maintain de-energised high voltage underground paper insulated cables
	∟ UETTDRCJ26 Install and maintain de-energised low voltage underground polymeric cables
	∟ UETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables
	∟ UETTDRCJ99 Test and verify distribution cable jointing installations
	∟ UETTDREL11 Apply sustainable energy and environmental procedures
	∟ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus
	∟ UETTDREL16 Working safely near live electrical apparatus
	∟ UETTDRIS41 Install network infrastructure electrical equipment
	∟ UETTDRIS42 Maintain network infrastructure electrical equipment
	∟ UETTDRIS55 Install and maintain low voltage

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#### underground services



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65

**UETTDRCJ31** 

∟ UETTDRIS55 Install and maintain low voltage underground services Install and maintain polymeric specialised 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 ∟ UEENEE107A 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 ∟ UETTDRCJ21 Lay ESI electrical cables ∟ UETTDRCJ23 Install and maintain de-energised high voltage underground paper insulated cables LUETTDRCJ26 Install and maintain de-energised low voltage underground polymeric cables ∟ UETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables ∟ UETTDRCJ99 Test and verify distribution cable jointing installations ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus LUETTDREL16 Working safely near live electrical apparatus □ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS55 Install and maintain low voltage underground services

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## **UETTDRCJ32** Install and maintain gas and oil pressure systems for 65 specialised underground cables Common Unit Group 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 ∟ UEENEEE105A Fix and secure electrotechnology equipment ∟ UEENEE107A 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 ∟ UETTDRCJ21 Lay ESI electrical cables ∟ UETTDRCJ23 Install and maintain de-energised high voltage underground paper insulated cables LUETTDRCJ26 Install and maintain de-energised low voltage underground polymeric cables ∟ UETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables ∟ UETTDRCJ99 Test and verify distribution cable jointing installations ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDREL16 Working safely near live electrical apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure electrical equipment ∟ UETTDRIS55 Install and maintain low voltage underground services

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Maintain energised HV distribution overhead electrical

UETTDRDP13

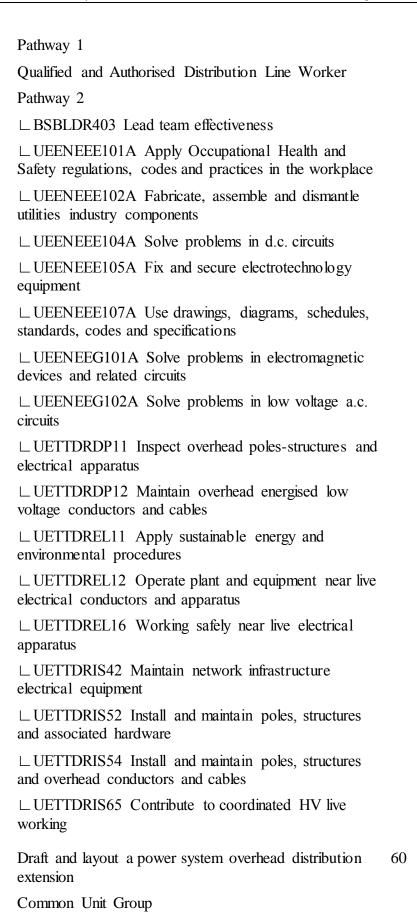
70

apparatus (stick) Pathway 1 Qualified and Authorised Distribution Line Worker Pathway 2 ∟ BSBLDR403 Lead team effectiveness 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 ∟ UEENEE107A 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 ∟ UETTDRDP11 Inspect overhead poles-structures and electrical apparatus ∟ 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 LUETTDREL16 Working safely near live electrical apparatus ∟ 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 ∟ UETTDRIS65 Contribute to coordinated HV live working Maintain energised HV distribution overhead electrical 70

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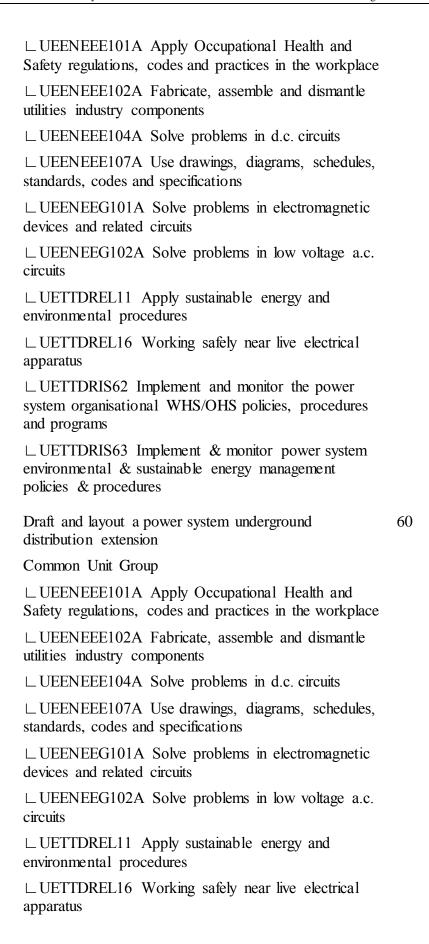
apparatus (glove)

**UETTDRDP14** 



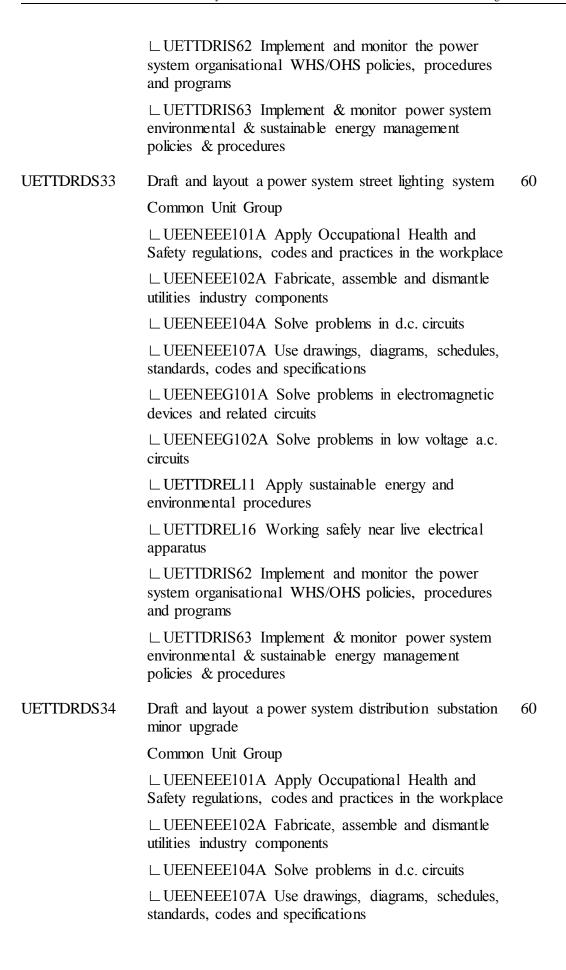
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**UETTDRDS31** 



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**UETTDRDS32** 



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60

**UETTDRIS48** 

∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL16 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 Develop high voltage switching schedule Electrical Common Unit Group LUEENEE101A 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 ∟ UEENEE107A 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 ∟ UETTDRIS44 Perform HV 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

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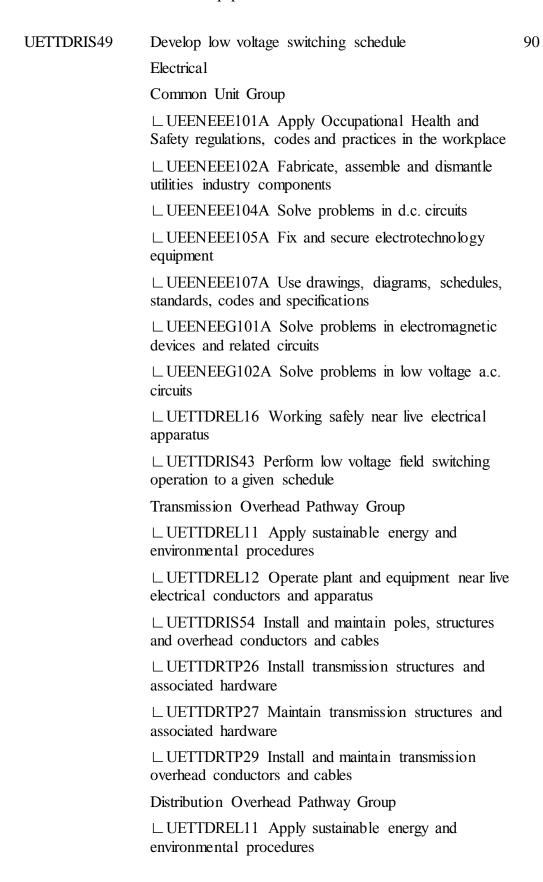
∟UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables
∟UETTDRTP26 Install transmission structures and associated hardware
∟UETTDRTP27 Maintain transmission structures and associated hardware
∟UETTDRTP29 Install and maintain transmission overhead conductors and cables
Distribution Overhead Pathway Group
∟UETTDREL11 Apply sustainable energy and environmental procedures
∟UETTDRDP12 Maintain overhead energised low voltage conductors and cables
∟UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus
$\begin{tabular}{ll} $\bot$ UETTDRIS41 Install network infrastructure electrical equipment \end{tabular}$
∟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
$\hfill \sqcup$ UETTDREL12 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

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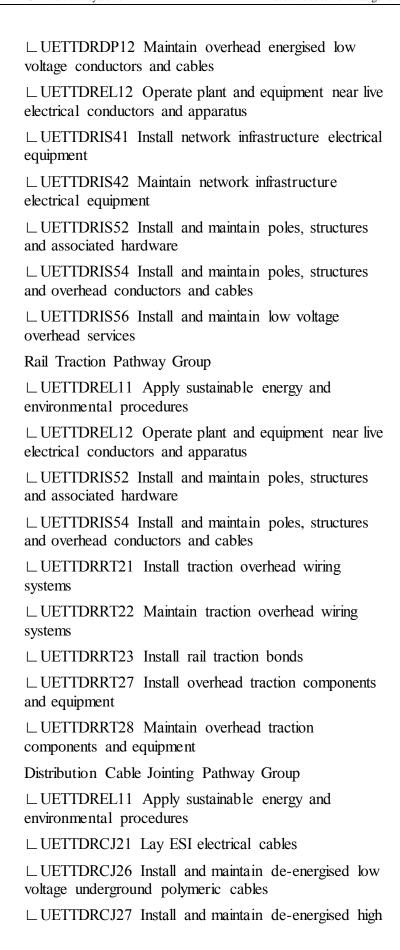
∟UETTDRRT27 Install overhead traction components and equipment
∟ UETTDRRT28 Maintain overhead traction components and equipment
Distribution Cable Jointing Pathway Group
∟UETTDRCJ21 Lay ESI electrical cables
∟UETTDRCJ26 Install and maintain de-energised low voltage underground polymeric cables
∟UETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables
∟UETTDREL11 Apply sustainable energy and environmental procedures
$\hfill \sqcup$ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus
$ \  \  \  \  \  \  \  \   \bot UETTDRIS41 \   Install \   network \   infrastructure \   electrical \\ equipment$
∟UETTDRIS42 Maintain network infrastructure electrical equipment
∟UETTDRIS55 Install and maintain low voltage underground services
Electrical Pathway Group
□ 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
∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
☐ UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits
∟UEENEEG109A Develop and connect electrical control circuits
LUEENEEK142A Apply environmentally and sustainable procedures in the energy sector
∟UETTDRIS67 Solve problems in energy supply

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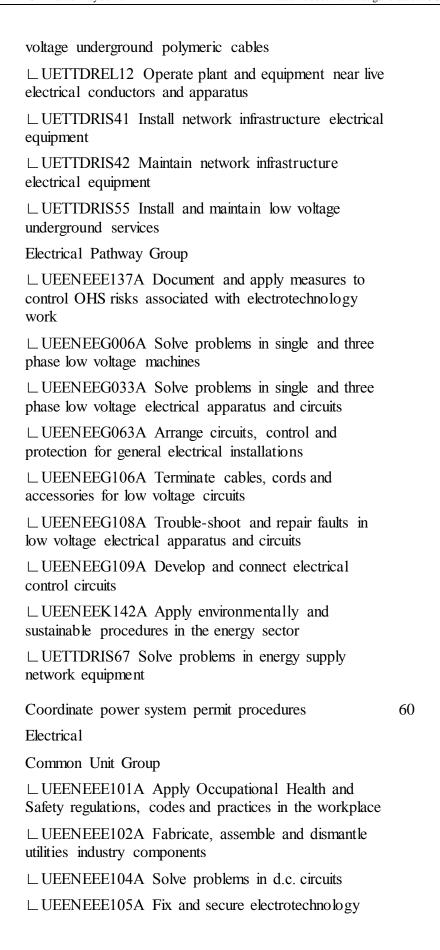
#### network equipment



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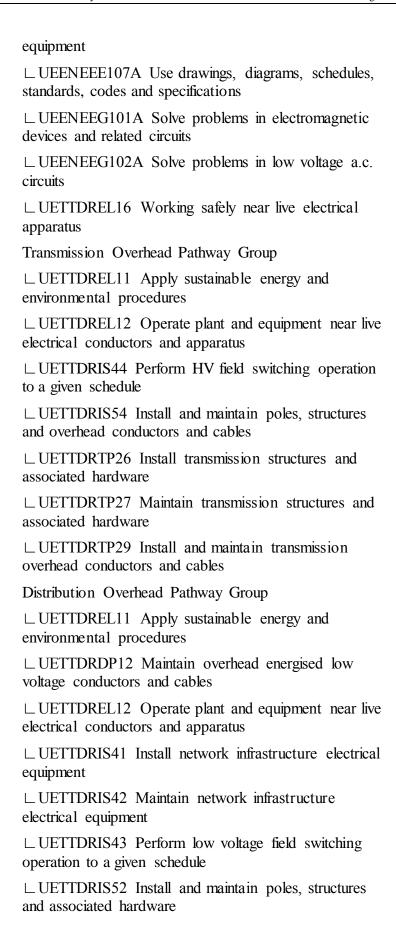


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**UETTDRIS50** 



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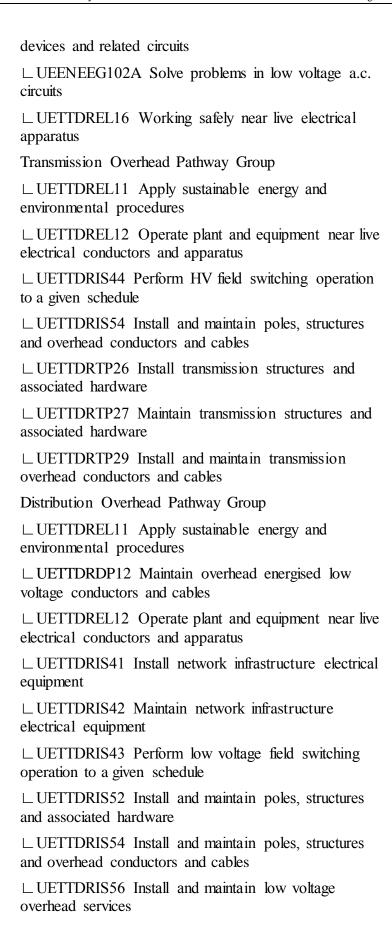
∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables
☐ UETTDRIS56 Install and maintain low voltage overhead services
Rail Traction Pathway Group
☐ UETTDREL11 Apply sustainable energy and environmental procedures
∟ UETTDREL12 Operate plant and equipment near live electrical 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
☐ UETTDRRT30 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
∟ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus
∟ UETTDRIS41 Install network infrastructure electrical equipment
∟ UETTDRIS42 Maintain network infrastructure electrical equipment
LIFTTDRIS43 Perform low voltage field switching

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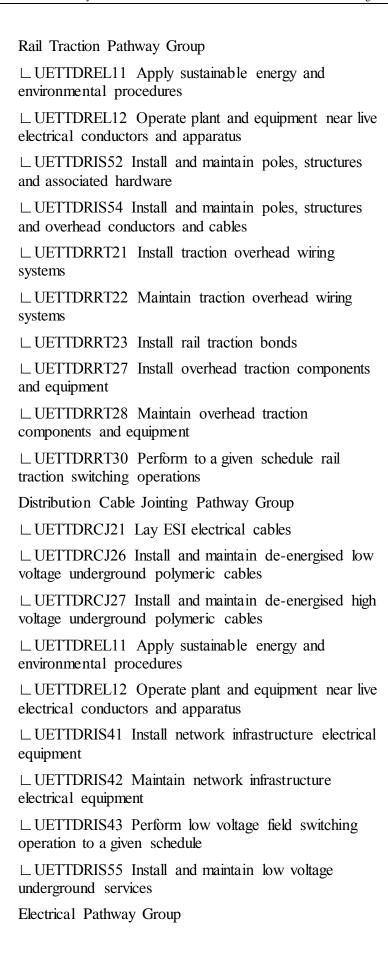
operation to a given schedule ∟ UETTDRIS55 Install and maintain low voltage underground services Electrical Pathway Group LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work ∟ UEENEEG006A Solve problems in single and three phase low voltage machines ∟UEENEEG033A 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 ∟ UETTDRIS67 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 60 **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 ∟ UEENEEG101A Solve problems in electromagnetic

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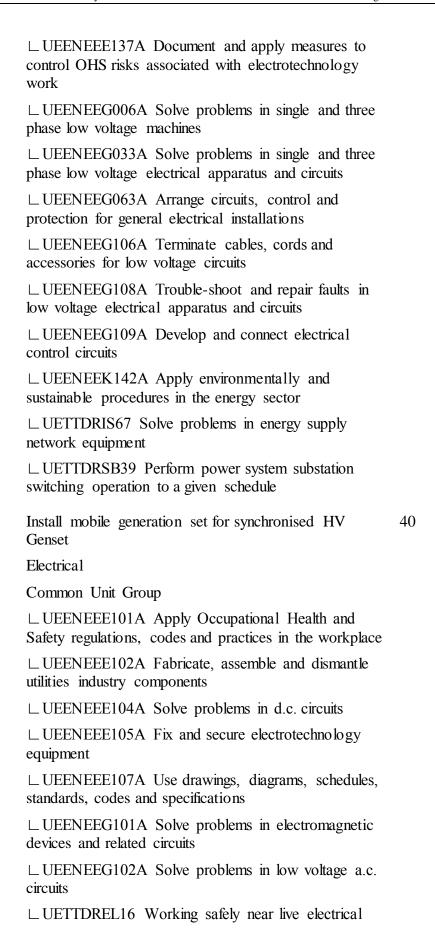
**UETTDRIS51** 



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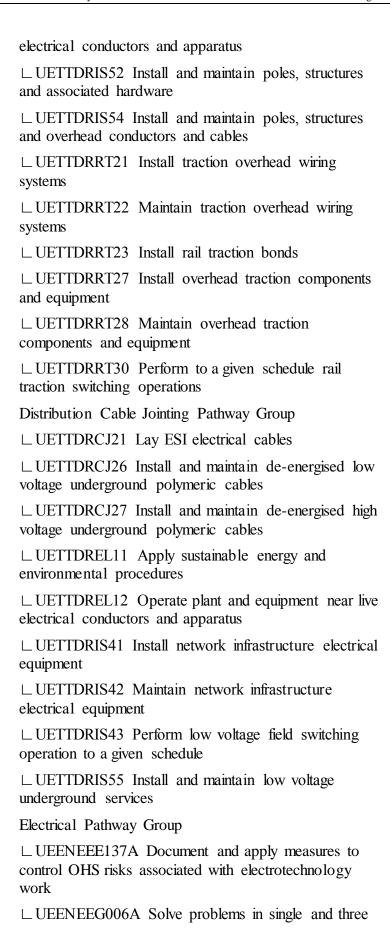
**UETTDRIS64** 

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 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 ∟ 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 Rail Traction Pathway Group ∟ UETTDREL11 Apply sustainable energy and

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LUETTDREL12 Operate plant and equipment near live

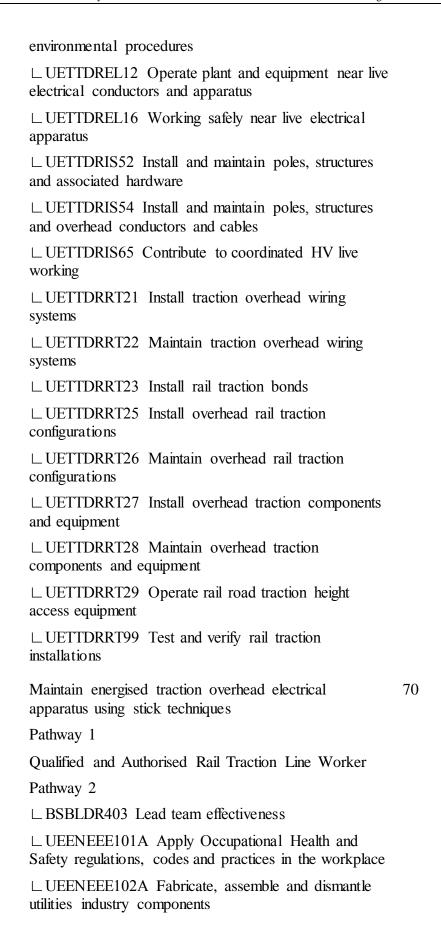
environmental procedures



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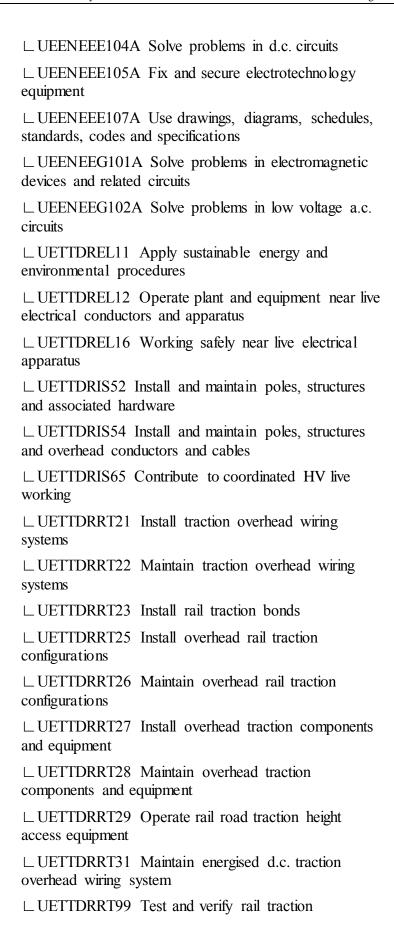
	phase low voltage machines	
	☐ UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits	
	LUEENEEG063A Arrange circuits, control and protection for general electrical installations	
	LUEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
	LUEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits	
	LUEENEEG109A Develop and connect electrical control circuits	
	LUEENEEK142A Apply environmentally and sustainable procedures in the energy sector	
	∟UETTDRIS67 Solve problems in energy supply network equipment	
	∟UETTDRSB39 Perform power system substation switching operation to a given schedule	
UETTDRIS65	Contribute to coordinated HV live working	50
UETTDRRT31	Maintain energised d.c. traction overhead wiring system	60
	Pathway 1	
	Qualified and Authorised Rail Traction Line Worker	
	Pathway 2	
	∟BSBLDR403 Lead team effectiveness	
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	LUEENEEE104A Solve problems in d.c. circuits	
	LUEENEEE105A 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	
	∟UETTDREL11 Apply sustainable energy and	

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**UETTDRRT32** 



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#### installations

## **UETTDRRT33** Maintain energised traction overhead electrical 70 apparatus using glove techniques Pathway 1 Qualified and Authorised Rail Traction Lineworker Pathway 2 ∟ BSBLDR403 Lead team effectiveness 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 □ UEENEE105A Fix and secure electrotechnology equipment ∟ UEENEE107A 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 ∟ UETTDREL11 Apply sustainable energy and environmental procedures LUETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDREL16 Working safely near live electrical apparatus ∟ UETTDRIS52 Install and maintain poles, structures and associated hardware ∟ UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables ∟ UETTDRIS65 Contribute to coordinated HV live working ∟ UETTDRRT21 Install traction overhead wiring systems ∟ UETTDRRT22 Maintain traction overhead wiring systems ∟ UETTDRRT23 Install rail traction bonds

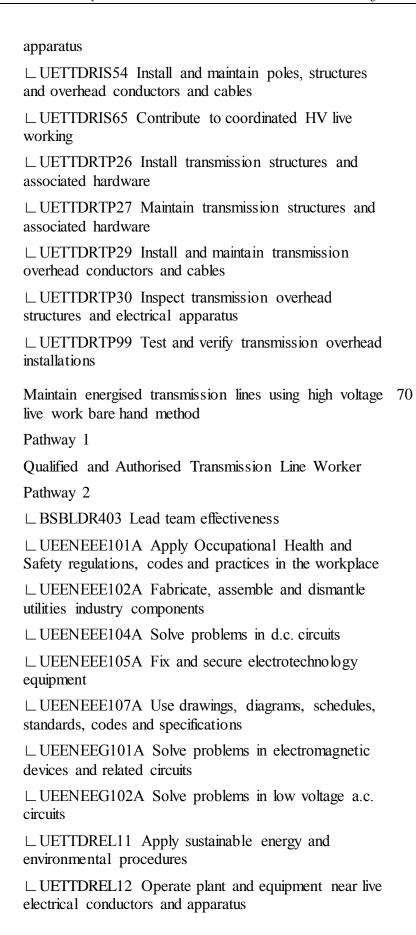
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UETTDRTP31

∟ UETTDRRT25 Install overhead rail traction configurations
∟ UETTDRRT26 Maintain overhead rail traction configurations
∟ UETTDRRT27 Install overhead traction components and equipment
∟ UETTDRRT28 Maintain overhead traction components and equipment
∟ UETTDRRT29 Operate rail road traction height access equipment
∟ UETTDRRT31 Maintain energised d.c. traction overhead wiring system
∟ UETTDRRT99 Test and verify rail traction installations
Maintain energised transmission lines using high voltage 70 live work stick method
Pathway 1
Certificate III Transmission Overhead Powerline Worker or a qualified Transmission Powerline Worker.
Pathway 2
∟ BSBLDR403 Lead team effectiveness
☐ 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
∟ UETTDREL11 Apply sustainable energy and environmental procedures
∟ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus
∟ UETTDREL16 Working safely near live electrical

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**UETTDRTP32** 

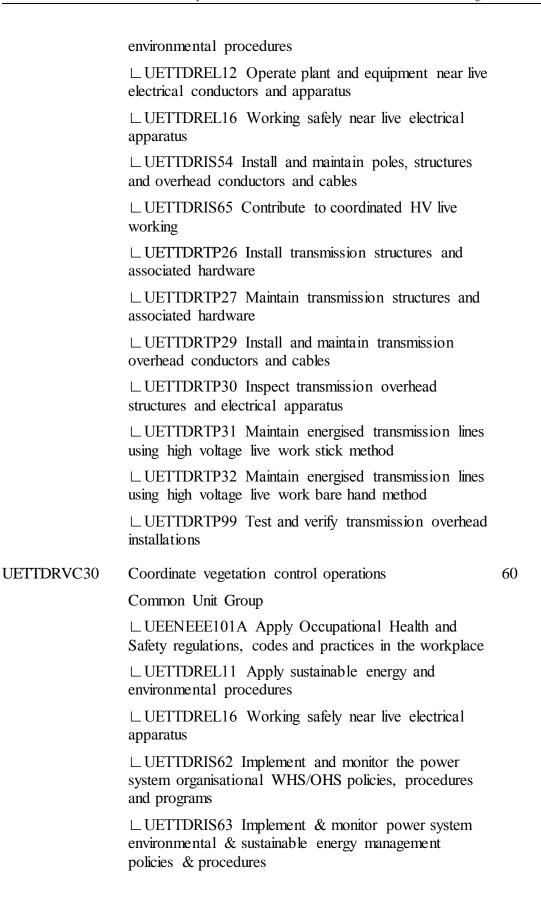


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∟UETTDREL16 Working safely near live electrical apparatus
∟UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables
☐ UETTDRIS65 Contribute to coordinated HV live working
□ UETTDRTP26 Install transmission structures and associated hardware
□ UETTDRTP27 Maintain transmission structures and associated hardware
☐ UETTDRTP29 Install and maintain transmission overhead conductors and cables
☐ UETTDRTP30 Inspect transmission overhead structures and electrical apparatus
□ UETTDRTP31 Maintain energised transmission lines using high voltage live work stick method
∟UETTDRTP99 Test and verify transmission overhead installations
Maintain energised transmission lines using bare hand 60 technique on a helicopter platform
Pathway 1
Qualified and Authorised Transmission Line Worker
Pathway 2
∟BSBLDR403 Lead team effectiveness
☐ 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

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UETTDRTP33



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# Qualification Mapping Information

This qualification replaces and is equivalent to UET40412 Certificate IV in ESI - Network Systems

### Links

Companion Volume Implementation Guides are found in VETNet - <a href="https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb1">https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb1</a> 3ecfad7

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