

UET30719 Certificate III in ESI - Power Systems - Rail Traction

UET30719 Certificate III in ESI - Power Systems - Rail Traction

Modification History

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

Qualification Description

This qualification provides the skills and knowledge to work in the electrical supply industry (ESI) as a Rail Traction Powerline Worker.

This qualification covers the installation, maintenance and inspection of overhead poles/structures, conductors, cables and rail traction wiring systems, including associated equipment used on these structures in the rail traction industry. It also includes the maintenance of bonds and the operation of rail traction height access equipment.

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

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

Entry Requirements

There are no entry requirements for this qualification

Packaging Rules

A total of **1060 weighting points** comprising:

870 core weighting points listed below; plus

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

Choose a minimum of 190 **weighting points** elective units from the list below, of which between 0 and 70 **weighting points** can be taken from Group A; and between 120 and 190 **weighting points** from Group B. You may select all your elective from this group.

Up to 70 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, their weighting will be 10 points.

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

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Core units		Weighting Points
AHCMOM213	Operate and maintain chainsaws	20
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	

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	∟UEENEEE104A Solve problems in d.c. circuits	
	∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
UETTDREL11	Apply sustainable energy and environmental procedures	20
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	
	□ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UETTDREL16 Working safely near live electrical apparatus	
UETTDREL16	Working safely near live electrical apparatus	20
UETTDRIS52	Install and maintain poles, structures and associated hardware	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	
	∟ UETTDREL11 Apply sustainable energy and environmental procedures	
	∟ UETTDREL16 Working safely near live electrical apparatus	
UETTDRIS54	Install and maintain poles, structures and overhead conductors and cables	60
	Common Unit Group	
	LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the	

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UETTDRRT21

workplace	
∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
∟UEENEEE105A Fix and secure electrotechnology equipment	
∟UETTDREL11 Apply sustainable energy and environmental procedures	
∟UETTDREL16 Working safely near live electrical apparatus	
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	
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	
∟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	
Maintain traction overhead wiring systems	60

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UETTDRRT22

Common Unit Group

- LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
- ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components
- ∟ UEENEEE104A Solve problems in d.c. circuits
- ∟ UEENEEE105A Fix and secure electrotechnology equipment
- ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits
- ∟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

UETTDRRT27

Install overhead traction components and equipment

Common Unit Group

- □ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
- ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components
- ∟ UEENEEE104A Solve problems in d.c. circuits
- ∟ UEENEEE105A Fix and secure electrotechnology equipment
- ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

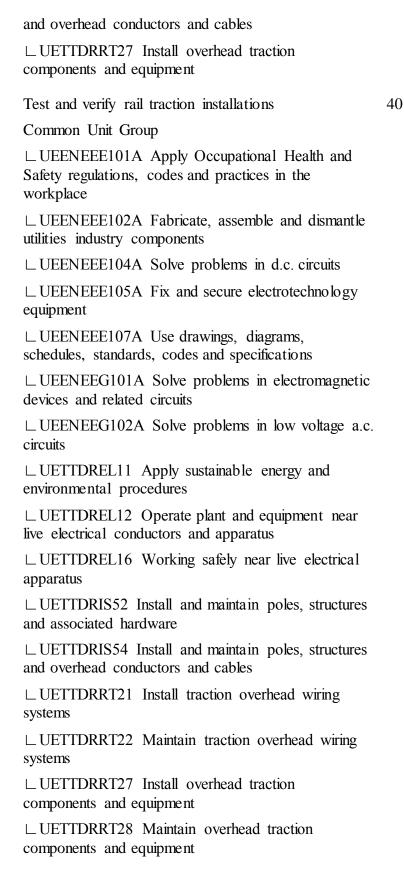
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☐ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
∟ UEENEEG102A Solve problems in low voltage a.c. circuits	
∟ UETTDREL11 Apply sustainable energy and environmental procedures	
☐ UETTDREL12 Operate plant and equipment near 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	
Maintain overhead traction components and equipment	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	
☐ 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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UETTDRRT99



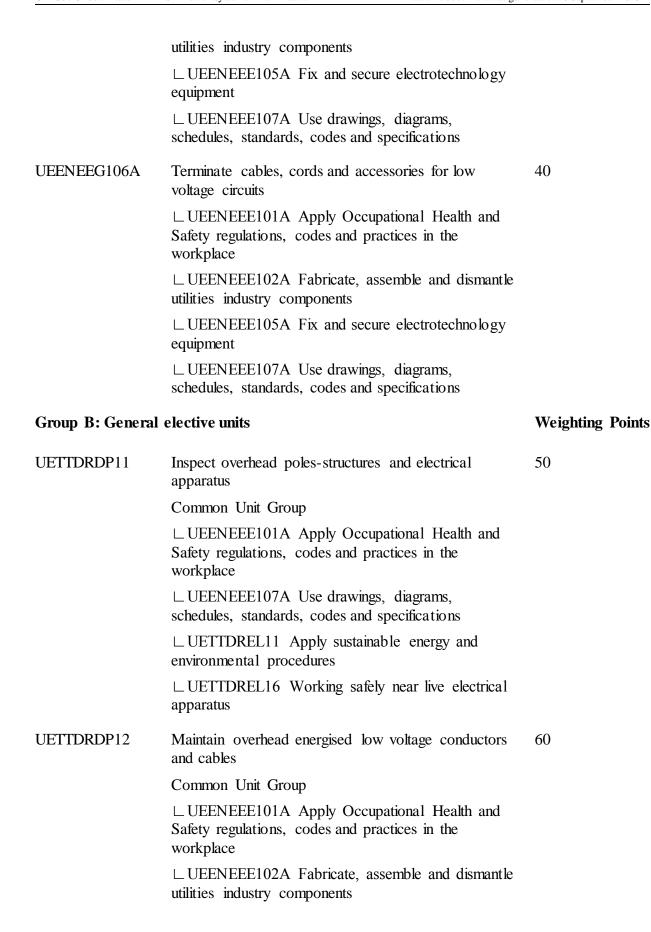
Group A: Imported and common elective units

Weighting Points

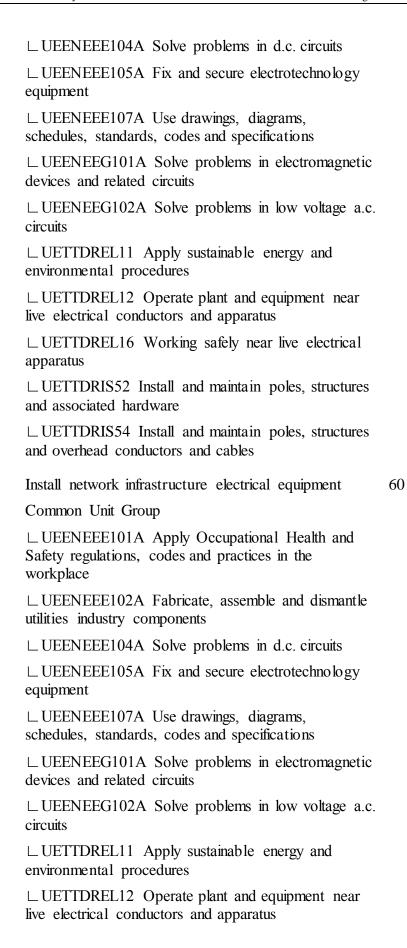
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CPCCLHS3001A	Licence to operate a personnel and materials hoist	10
CPCCLHS3002A	Licence to operate a materials hoist	10
CPCCLRG3001A	Licence to perform rigging basic level ∟ CPCCLDG3001A Licence to perform dogging	40
CPCCLRG3002A	Licence to perform rigging intermediate level CPCCLRG3001A Licence to perform rigging basic level	60
CPCCLSF2001A	Licence to erect, alter and dismantle scaffolding basic level	20
CPCCLSF3001A	Licence to erect, alter and dismantle scaffolding intermediate level CPCCLSF2001A Licence to erect, alter and dismantle scaffolding basic level	20
TLILIC0002	Licence to operate a vehicle loading crane (capacity 10 metre tonnes and above)	40
TLILIC0003	Licence to operate a forklift truck	40
TLILIC2015	Licence to drive a medium rigid vehicle	20
TLILIC2016	Licence to drive a heavy rigid vehicle	20
TLILIC0006	Licence to operate a bridge and gantry crane	70
TLILIC0010	Licence to operate a slewing mobile crane (up to 20 tonnes)	70
TLILIC0013	Licence to operate a slewing mobile crane (up to 60 tonnes)	70
TLILIC0015	Licence to operate a slewing mobile crane (over 100 Tonnes)	70
UEENEEE108A	Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits □ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace □ UEENEEE102A Fabricate, dismantle, assemble of	40

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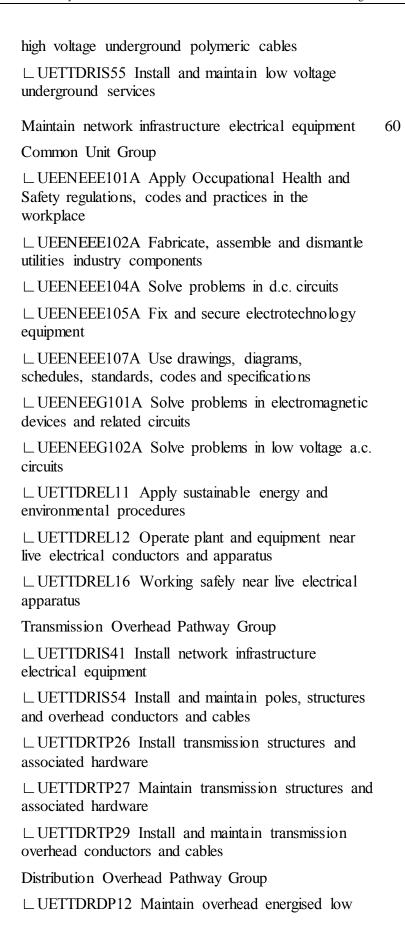
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UETTDRIS41

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 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

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UETTDRIS42



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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 Rail Traction Pathway Group ∟ 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 ∟ 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 ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS55 Install and maintain low voltage underground services Perform low voltage field switching operation to a 50 given schedule **Electrical**

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UETTDRIS43

Common Unit Group

- □ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
- ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components
- ∟ UEENEEE104A Solve problems in d.c. circuits
- ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- ∟UEENEEG101A Solve problems in electromagnetic devices and related circuits
- ∟ 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

- ∟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
- ∟ UETTDRIS41 Install network infrastructure electrical equipment

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∟ 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 ∟ 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 Distribution Cable Jointing Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures ∟ 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 ∟ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus ∟ UETTDRIS41 Install network infrastructure electrical equipment ∟ UETTDRIS42 Maintain network infrastructure

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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 ∟ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector LUETTDRIS67 Solve problems in energy supply network equipment Perform HV field switching operation to a given 50 schedule **Electrical** Common Unit Group ∟ UEENEEE101A 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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devices and related circuits

UETTDRIS44

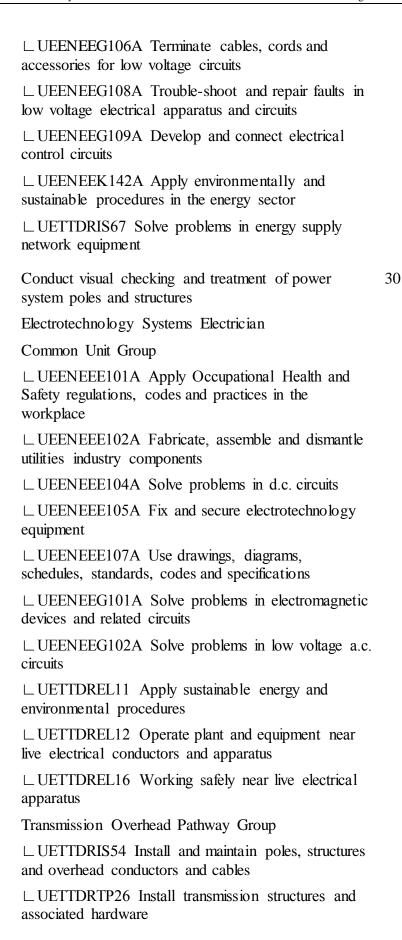
LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETTDREL16 Working safely near live electrical apparatus Transmission Overhead Pathway Group ∟ UETTDREL11 Apply sustainable energy and environmental procedures ∟ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus LUETTDRIS54 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 ∟ 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 ∟ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus

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LUETTDRIS52 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 ∟ 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 ∟ 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

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UETTDRIS57



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LUETTDRTP27 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 ∟ 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

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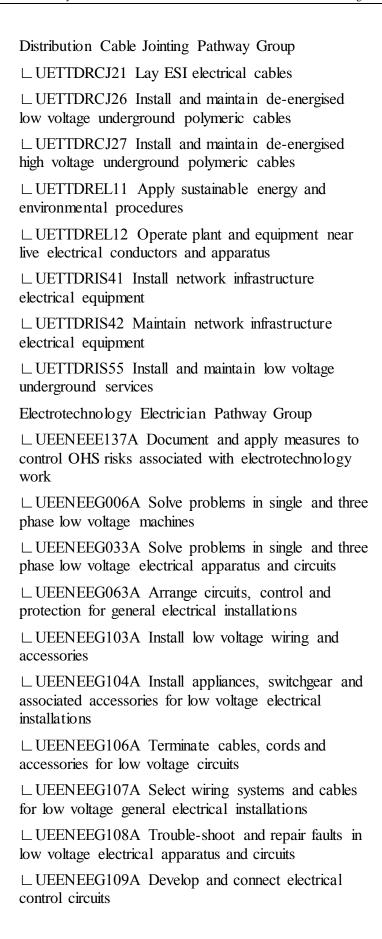
UETTDRIS61

∟ 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 electrical equipment ∟ UETTDRIS55 Install and maintain low voltage underground services Install mobile generation set for synchronised LV Genset Electrotechnology Electrician Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟ UEENEEE104A Solve problems in d.c. circuits □ UEENEEE105A Fix and secure electrotechnology equipment ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications 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

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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 ∟ 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

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UETTDRRT23

∟ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector Install rail traction bonds 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 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 Maintain rail traction bonds 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

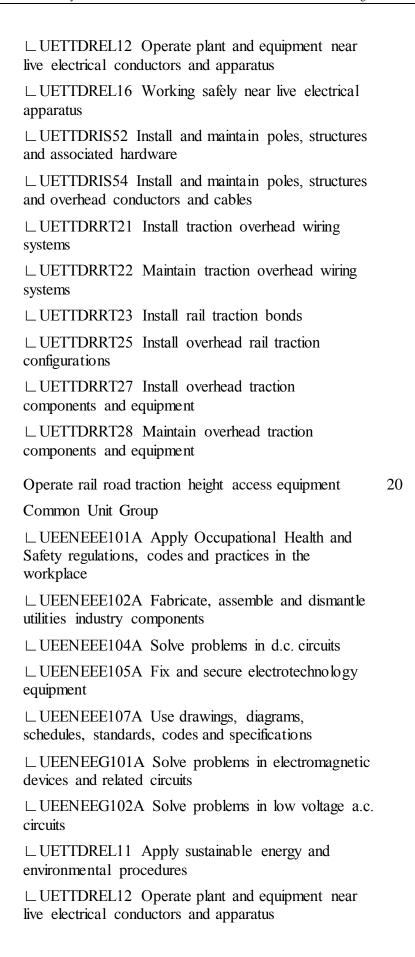
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∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
∟UEENEEG102A Solve problems in low voltage a.c. circuits	
∟ UETTDREL11 Apply sustainable 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	
∟ 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	
Install overhead rail traction configurations	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	

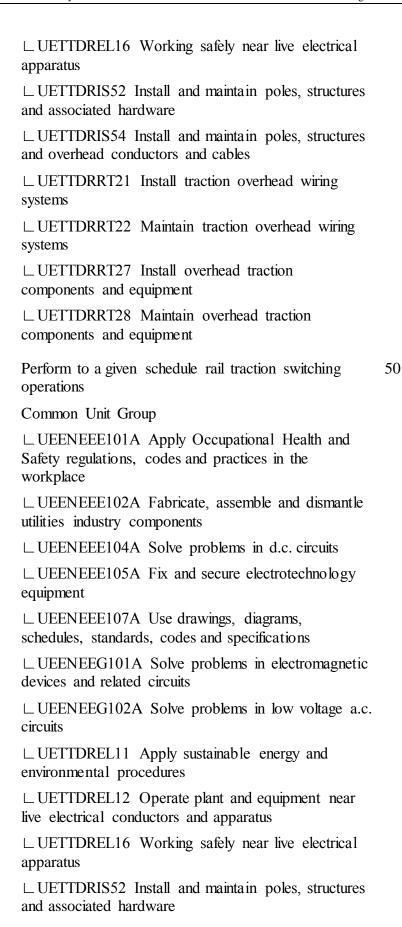
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∟ UEENEEG102A Solve problems in low voltage a.c. circuits	
∟ UETTDREL11 Apply sustainable energy and environmental procedures	
∟ UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus	
∟ UETTDREL16 Working safely near 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	
∟UETTDRRT23 Install rail traction bonds	
∟ UETTDRRT27 Install overhead traction components and equipment	
∟ UETTDRRT28 Maintain overhead traction components and equipment	
Maintain overhead rail traction configurations 6	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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UETTDRSB39

∟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 power system substation switching operation to a given schedule
Electrical
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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\bot 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

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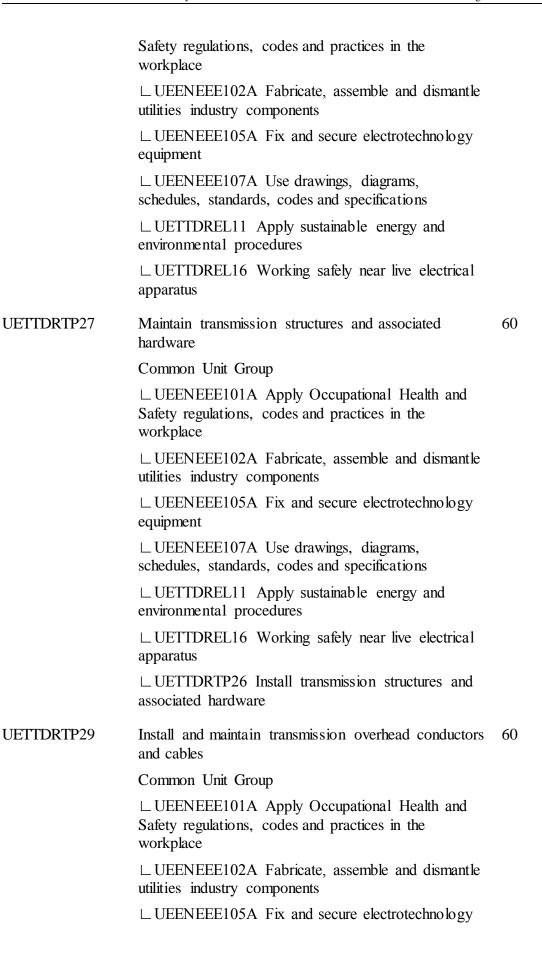
LUETTDRTP27 Maintain transmission structures and associated hardware ∟ UETTDRTP29 Install and maintain transmission overhead conductors and cables Distribution Overhead Pathway Group ∟ UETTDRDP12 Maintain overhead energised low voltage conductors and cables ∟ UETTDREL11 Apply sustainable energy and environmental 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 ∟ UETTDRRT27 Install overhead traction components and equipment ∟ UETTDRRT28 Maintain overhead traction components and equipment

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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	
☐ 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	
☐ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector	
☐ UETTDRIS67 Solve problems in energy supply network equipment	
Install transmission structures and associated hardware	60
Common Unit Group	
LUEENEEE101A Apply Occupational Health and	

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UETTDRTP26



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equipment

∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟ UETTDREL11 Apply sustainable energy and environmental procedures ∟ UETTDREL16 Working safely near live electrical apparatus ∟ UETTDRTP26 Install transmission structures and associated hardware ∟ UETTDRTP27 Maintain transmission structures and associated hardware **UETTDRTP30** Inspect transmission overhead structures and electrical 40 apparatus Common Unit Group LUEENEEE101A 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 **UETTDRVC29** 40 Control vegetation whilst performing linework Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟ UEENEEE104A Solve problems in d.c. circuits ∟ UEENEEE105A Fix and secure electrotechnology equipment ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟ UEENEEG102A Solve problems in low voltage a.c.

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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

Qualification Mapping Information

This qualification replaces and is equivalent to UET30712 Certificate III in $ESI-Power\ Systems-Rail\ Traction$

Links

 $\label{lem:companion} \begin{tabular}{ll} Companion Volume Implementation Guides are found in VETNet - $$\underline{https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb1}$ 3ecfad7 \\ \end{tabular}$

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