

# **UET40421 Certificate IV in ESI - Network Systems**

Release 1

#### **UET40421 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 Release 2.0.

#### **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 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 **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
CPCCLDG3001	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	
UETDREL001	Apply environmental requirements	20

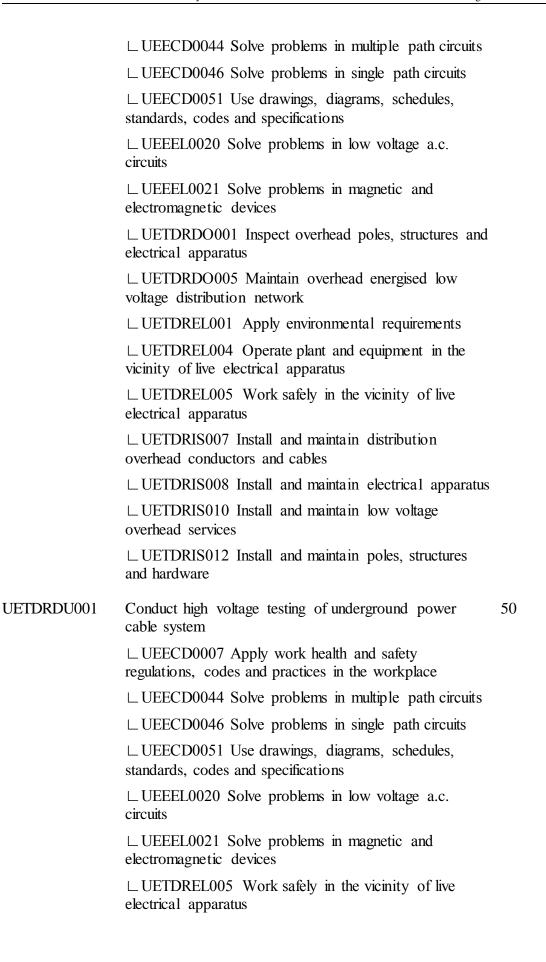
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Group B: Qualifi	cation elective units	Weighting Points
CI CCLXO3001	□ CPCCLDG3001 Licence to perform dogging	+∪
CPCCLRG3001	Licence to perform rigging basic level	40
BSBSTR402	Implement continuous improvement	40
BSBOPS402	Coordinate business operational plans	40
BSBLDR414	Lead team effectiveness	50
BSBLDR413	Lead effective workplace relationships	50
BSBINS402	Coordinate workplace information systems	40
AHCMOM213	Operate and maintain chainsaws	20
Group A: Import	ted and common elective units	Weighting Points
	Safety regulations, codes and practices in the workplace  LUETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UEENEEE101A Apply Occupational Health and	
UETDRIS006	Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	30
	∟ UETDREL001 Apply environmental requirements	
	ESI - TDR Pathway Unit Group	
	LUEENEEK142A Apply environmentally and sustainable procedures in the energy sector	
	Electrotechnology Pathway Unit Group	
UETDRIS005	Implement & monitor power system environmental & sustainable energy management policies & procedures	30
UETDREL005	Work safely in the vicinity of live electrical apparatus  LUEECD0007 Apply work health and safety regulations, codes and practices in the workplace	20
	electrical apparatus  LUEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
UETDREL004	Operate plant and equipment in the vicinity of live	40

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UETDRDO001	Inspect overhead poles, structures and electrical apparatus	50
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRDO005	Maintain overhead energised low voltage distribution network	60
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟ UETDRIS007 Install and maintain distribution overhead conductors and cables	
	∟UETDRIS012 Install and maintain poles, structures and hardware	
UETDRDO006	Maintain, test and verify distribution overhead network	40
	LUEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	

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UETDRDU009	Install, test and verify distribution underground cable installations	40
	∟ CPCCLDG3001 Licence to perform dogging	
	☐ TLILIC0005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more)	
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟ UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDRDU002 Inspect underground electrical apparatus	
	∟ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable	
	∟ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS008 Install and maintain electrical apparatus	
	∟ UETDRIS011 Install and maintain low voltage underground services	
UETDRDU010	Joint, terminate and maintain energised low voltage underground paper insulated cable	60
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	

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	∟ UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟UETDRDU014 Joint, terminate and maintain low voltage underground paper insulated cable	
	∟ UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRDU011	Joint, terminate and maintain energised low voltage underground polymeric cable	50
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟ UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRDU012	Joint, terminate and maintain high voltage underground paper insulated cable	60
	∟UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	

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	∟ UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRDU013	Joint, terminate and maintain high voltage underground polymeric cable	50
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟ UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRDU014	Joint, terminate and maintain low voltage underground paper insulated cable	40
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEECD0051 Use drawings, diagrams, schedules,	

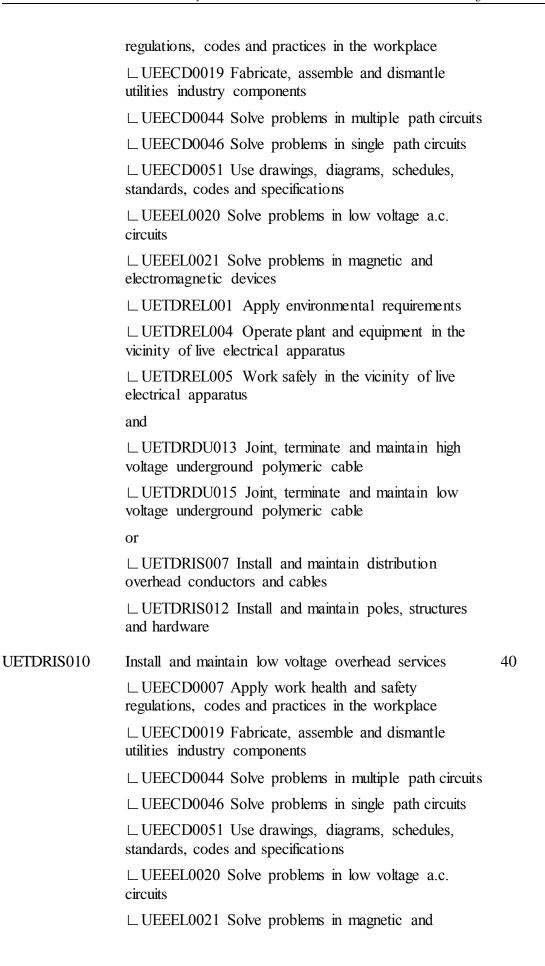
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	standards, codes and specifications	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRDU015	Joint, terminate and maintain low voltage underground polymeric cable	50
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟ UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRDU016	Lay power cables	20
UETDRDU017	Locate faults in underground power cables	60
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	

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	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRDU019	Transition joint high voltage paper insulated cable to high voltage polymeric cable	50
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRIS007	Install and maintain distribution overhead conductors and cables	60
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS012 Install and maintain poles, structures and hardware	
UETDRIS008	Install and maintain electrical apparatus	60
	∟UEECD0007 Apply work health and safety	

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	electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRIS011	Install and maintain low voltage underground services	40
	∟UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟UEECD0044 Solve problems in multiple path circuits	
	∟UEECD0046 Solve problems in single path circuits	
	∟UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRIS012	Install and maintain poles, structures and hardware	50
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRIS014	Install and replace energy meters and associated equipment	50
	□ UEECD0007 Apply work health and safety	

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	regulations, codes and practices in the workplace	
	∟UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟UEECD0044 Solve problems in multiple path circuits	
	∟UEECD0046 Solve problems in single path circuits	
	∟UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟UETDREL001 Apply environmental requirements	
UETDRIS015	Install low voltage mobile generator	50
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟UEECD0044 Solve problems in multiple path circuits	
	∟UEECD0046 Solve problems in single path circuits	
	∟UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRIS017	Perform high voltage field switching operation to a given schedule	50
	LUEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	LUEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟UEEEL0021 Solve problems in magnetic and	

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	electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS018 Perform low voltage field switching operation to a given schedule	
UETDRRT001	Install overhead rail traction configurations	50
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟ UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟ UETDRIS007 Install and maintain distribution overhead conductors and cables	
	∟ UETDRIS012 Install and maintain poles, structures and hardware	
	∟ UETDRRT002 Install overhead traction components and equipment	
	∟ UETDRRT004 Install traction overhead wiring systems	
UETDRRT002	Install overhead traction components and equipment	50
	LUEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle	

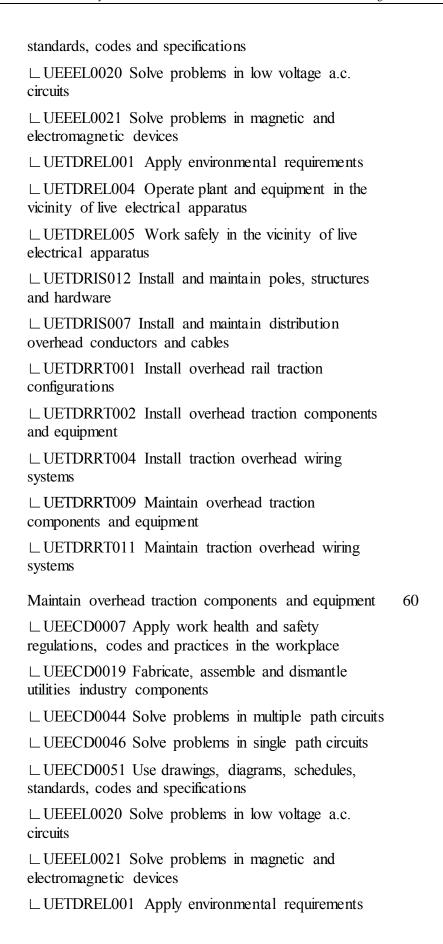
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	utilities industry components	
	∟UEECD0044 Solve problems in multiple path circuits	
	∟UEECD0046 Solve problems in single path circuits	
	∟UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟ UETDRIS007 Install and maintain distribution overhead conductors and cables	
	∟UETDRIS012 Install and maintain poles, structures and hardware	
UETDRRT003	Install rail traction bonds	40
	∟UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟UEECD0044 Solve problems in multiple path circuits	
	∟UEECD0046 Solve problems in single path circuits	
	∟UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟UETDREL001 Apply environmental requirements	
	∟UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟ UETDRIS007 Install and maintain distribution overhead conductors and cables	

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	∟ UETDRIS012 Install and maintain poles, structures and hardware	
	∟ UETDRRT002 Install overhead traction components and equipment	
	∟ UETDRRT004 Install traction overhead wiring systems	
UETDRRT004	Install traction overhead wiring systems	50
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟ UEECD0044 Solve problems in multiple path circuits	
	∟UEECD0046 Solve problems in single path circuits	
	∟ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟ UETDRIS007 Install and maintain distribution overhead conductors and cables	
	∟UETDRIS012 Install and maintain poles, structures and hardware	
	∟ UETDRRT002 Install overhead traction components and equipment	
UETDRRT008	Maintain overhead rail traction configurations	60
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟ UEECD0044 Solve problems in multiple path circuits	
	∟UEECD0046 Solve problems in single path circuits	
	∟ UEECD0051 Use drawings, diagrams, schedules,	

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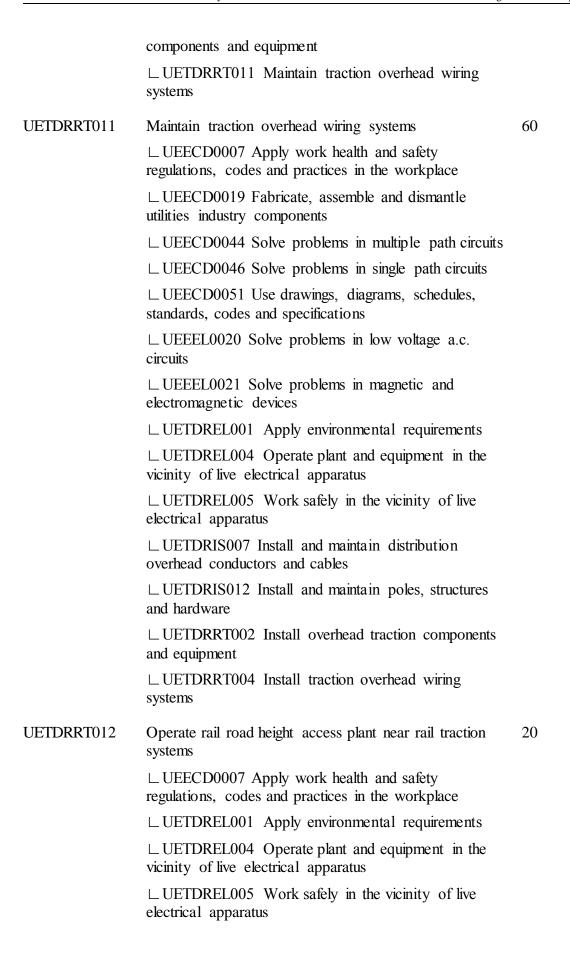


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UETDRRT009

	☐ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS007 Install and maintain distribution overhead conductors and cables	
	∟UETDRIS012 Install and maintain poles, structures and hardware	
	∟UETDRRT002 Install overhead traction components and equipment	
UETDRRT010	Maintain rail traction bonds	50
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟UETDRIS007 Install and maintain distribution overhead conductors and cables	
	∟UETDRIS012 Install and maintain poles, structures and hardware	
	∟UETDRRT002 Install overhead traction components and equipment	
	∟UETDRRT003 Install rail traction bonds	
	∟UETDRRT004 Install traction overhead wiring systems	
	LUETDRRT009 Maintain overhead traction	

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UETDRRT013	Perform rail traction switching operations to a given schedule	50
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟ UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟ UETDRIS007 Install and maintain distribution overhead conductors and cables	
	∟UETDRIS012 Install and maintain poles, structures and hardware	
	∟UETDRRT001 Install overhead rail traction configurations	
	∟UETDRRT002 Install overhead traction components and equipment	
	∟UETDRRT004 Install traction overhead wiring systems	
UETDRRT014	Test and verify rail traction installations	40
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟ UEECD0044 Solve problems in multiple path circuits	
	∟ UEECD0046 Solve problems in single path circuits	
	□ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	

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	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟ UETDRIS007 Install and maintain distribution overhead conductors and cables	
	∟ UETDRIS012 Install and maintain poles, structures and hardware	
	∟ UETDRRT001 Install overhead rail traction configurations	
	∟ UETDRRT002 Install overhead traction components and equipment	
	∟ UETDRRT003 Install rail traction bonds	
	∟ UETDRRT004 Install traction overhead wiring systems	
	∟ UETDRRT008 Maintain overhead rail traction configurations	
	∟ UETDRRT009 Maintain overhead traction components and equipment	
	∟UETDRRT010 Maintain rail traction bonds	
	∟ UETDRRT011 Maintain traction overhead wiring systems	
	∟ UETDRRT012 Operate rail road height access plant near rail traction systems	
UETDRSB001	Perform substation switching operations to a given schedule	50
UETDRTO004	Inspect and maintain transmission overhead network	40
	∟ CPCCLDG3001 Licence to perform dogging	
	∟ CPCCLRG3001 Licence to perform rigging basic level	
	☐ TLILIC0005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more)	

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	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟UEECD0044 Solve problems in multiple path circuits	
	∟UEECD0046 Solve problems in single path circuits	
	∟UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UEEEL0020 Solve problems in low voltage a.c. circuits	
	∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟ UETDRTO005 Inspect transmission structures, conductors and hardware	
	∟ UETDRTO006 Install and maintain transmission conductors	
	∟ UETDRTO007 Install and maintain transmission structures and hardware	
UETDRTO005	Inspect transmission structures, conductors and hardware	40
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UETDREL001 Apply environmental requirements	
	∟UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRTO006	Install and maintain transmission conductors	60
	∟ CPCCLRG3001 Licence to perform rigging basic level	
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	

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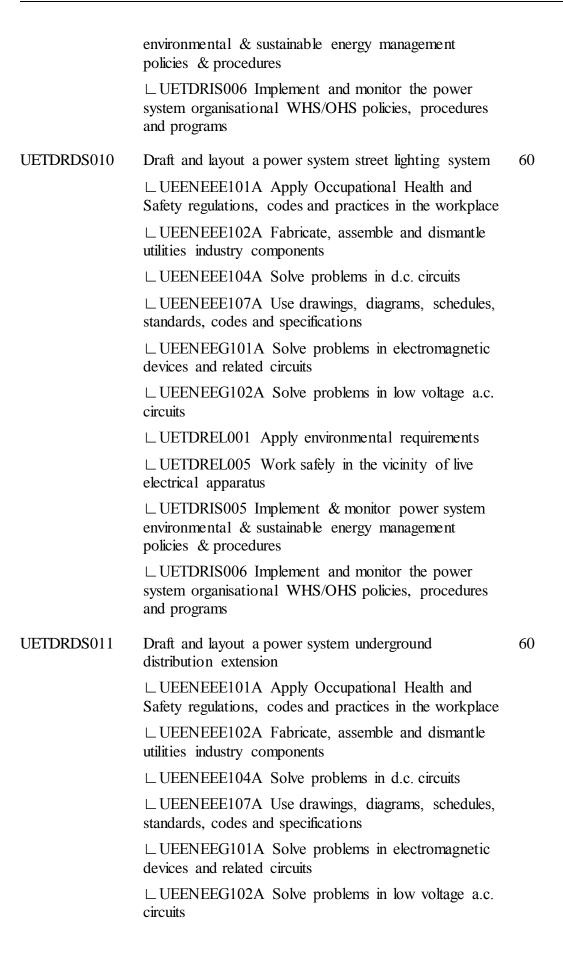
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟ UETDRTO007 Install and maintain transmission structures and hardware	
UETDRTO007	Install and maintain transmission structures and hardware	60
	∟ CPCCLRG3001 Licence to perform rigging basic level	
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components	
	∟UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
UETDRVC003	Control vegetation for powerline work	40
	∟AHCMOM213 Operate and maintain chainsaws	
	∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	
	∟ UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
Group C: Qualific	cation elective units	Weighting Points
UETDRDO003	Maintain energised high voltage distribution overhead electrical apparatus (glove and barrier)	70
UETDRDO004	Maintain energised high voltage distribution overhead	70

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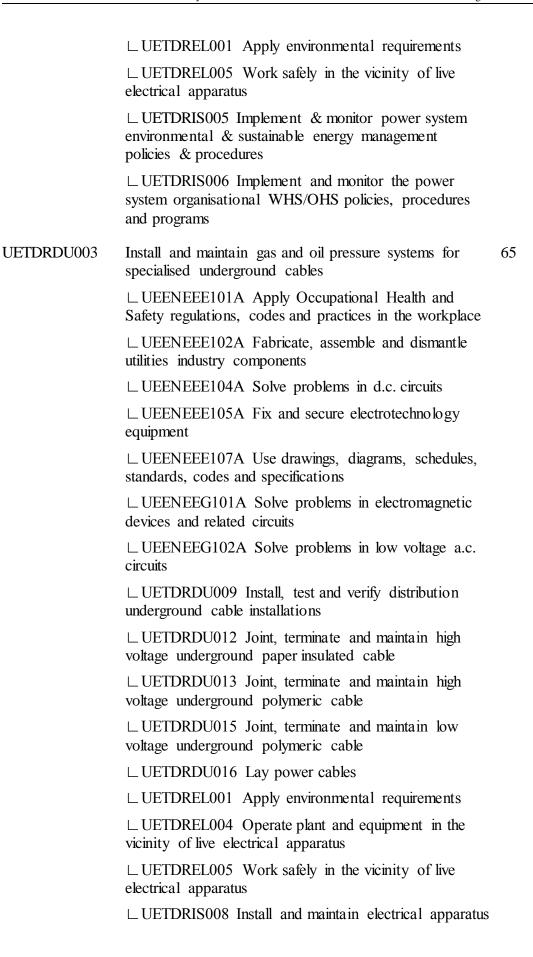
electrical apparatus (stick)

### UETDRDS008 Draft and layout a power system distribution substation 60 minor upgrade 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 ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits ∟ UEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETDREL001 Apply environmental requirements ∟ UETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures ∟ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs UETDRDS009 60 Draft and layout a power system overhead distribution extension ∟ 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 LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETDREL001 Apply environmental requirements LUETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS005 Implement & monitor power system

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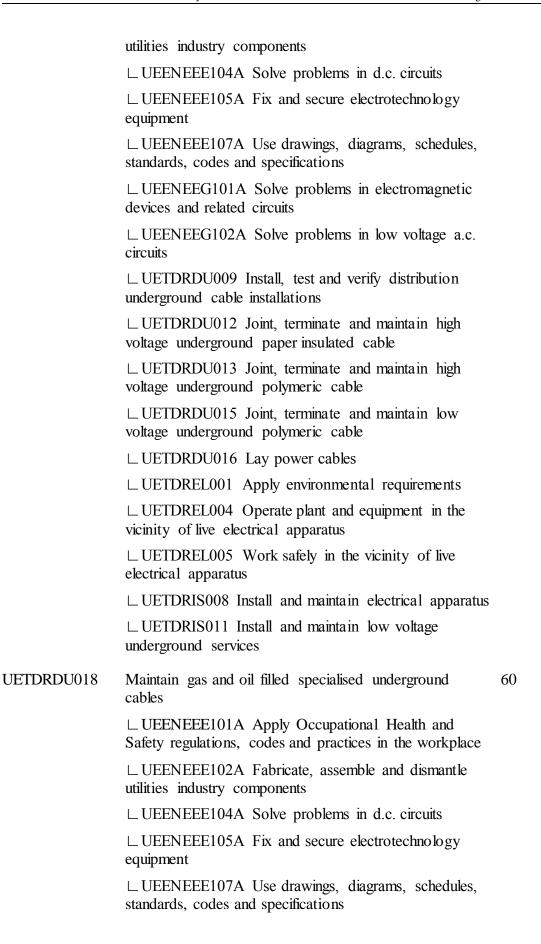
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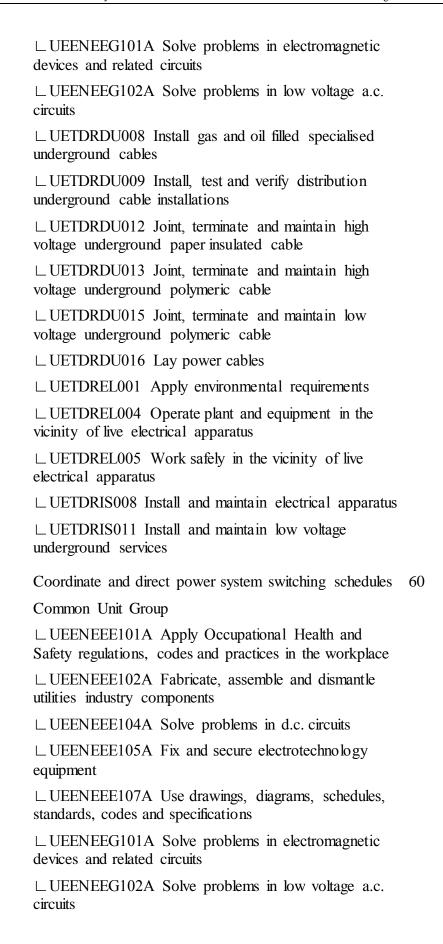
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∟ UETDRIS011 Install and maintain low voltage underground services UETDRDU006 Install and maintain polymeric specialised underground 65 cables LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A Solve problems in d.c. circuits □ UEENEEE105A Fix and secure electrotechnology equipment ∟ 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 LUETDRDU009 Install, test and verify distribution underground cable installations LUETDRDU012 Joint, terminate and maintain high voltage underground paper insulated cable ∟ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable ∟ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable ∟ UETDRDU016 Lay power cables ∟ UETDREL001 Apply environmental requirements ∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus ∟ UETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS008 Install and maintain electrical apparatus ∟ UETDRIS011 Install and maintain low voltage underground services UETDRDU008 Install gas and oil filled specialised underground cables 60 LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEE102A Fabricate, assemble and dismantle

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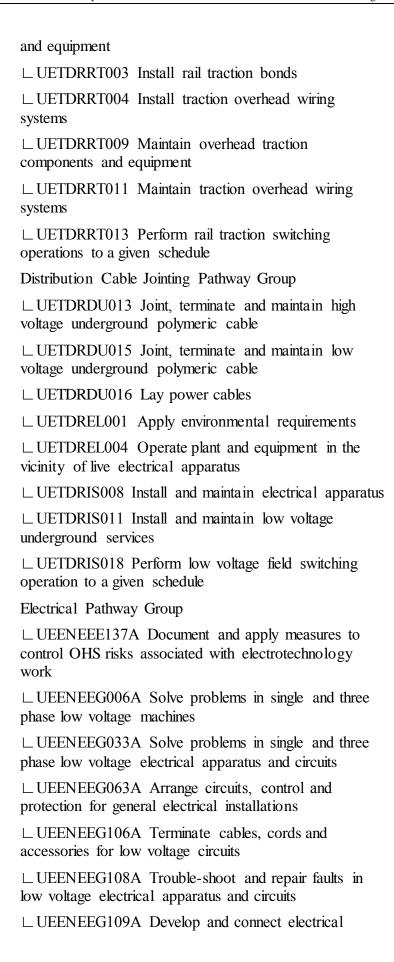


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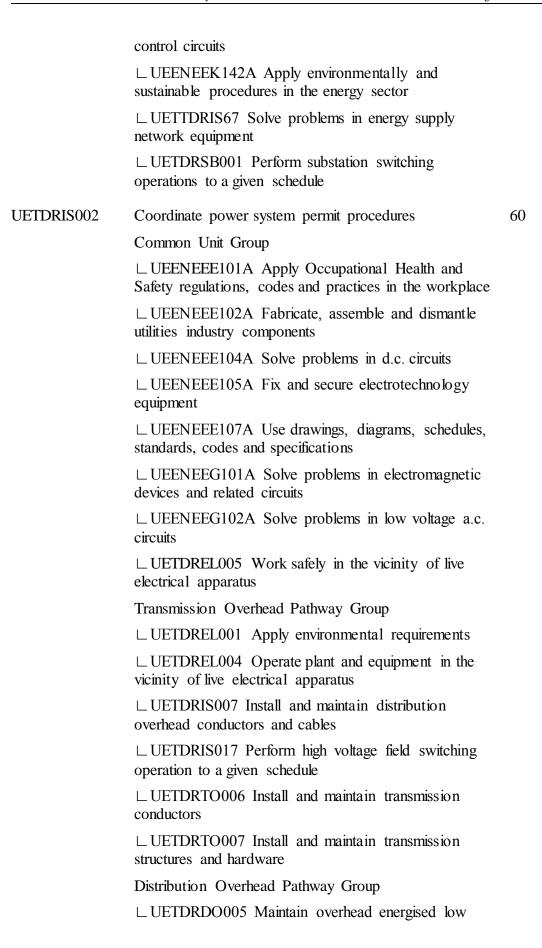
UETDRIS001

LUETDREL005 Work safely in the vicinity of live electrical apparatus Transmission Overhead Pathway Group LUETDREL001 Apply environmental requirements LUETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus ∟ UETDRIS007 Install and maintain distribution overhead conductors and cables ∟ UETDRIS017 Perform high voltage field switching operation to a given schedule ∟ UETDRTO006 Install and maintain transmission conductors ∟ UETDRTO007 Install and maintain transmission structures and hardware Distribution Overhead Pathway Group ∟ UETDRDO005 Maintain overhead energised low voltage distribution network ∟ UETDREL001 Apply environmental requirements ∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus ∟ UETDRIS007 Install and maintain distribution overhead conductors and cables LUETDRIS008 Install and maintain electrical apparatus ∟ UETDRIS010 Install and maintain low voltage overhead services ∟ UETDRIS012 Install and maintain poles, structures and hardware ∟ UETDRIS018 Perform low voltage field switching operation to a given schedule Rail Traction Pathway Group ∟ UETDREL001 Apply environmental requirements LUETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus ∟ UETDRIS007 Install and maintain distribution overhead conductors and cables ∟ UETDRIS012 Install and maintain poles, structures and hardware ∟ UETDRRT002 Install overhead traction components

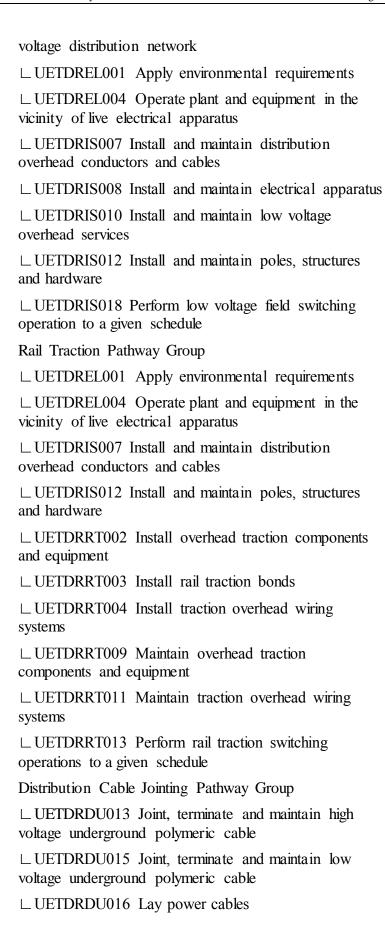
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∟UETDREL001 Apply environmental requirements	
∟UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
∟UETDRIS008 Install and maintain electrical apparatus	
∟UETDRIS011 Install and maintain low voltage underground services	
∟UETDRIS018 Perform low voltage field switching operation to a given schedule	
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	
∟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	
∟ UETDRSB001 Perform substation switching operations to a given schedule	
Develop high voltage switching schedule	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	
∟UEENEEE107A Use drawings, diagrams, schedules,	

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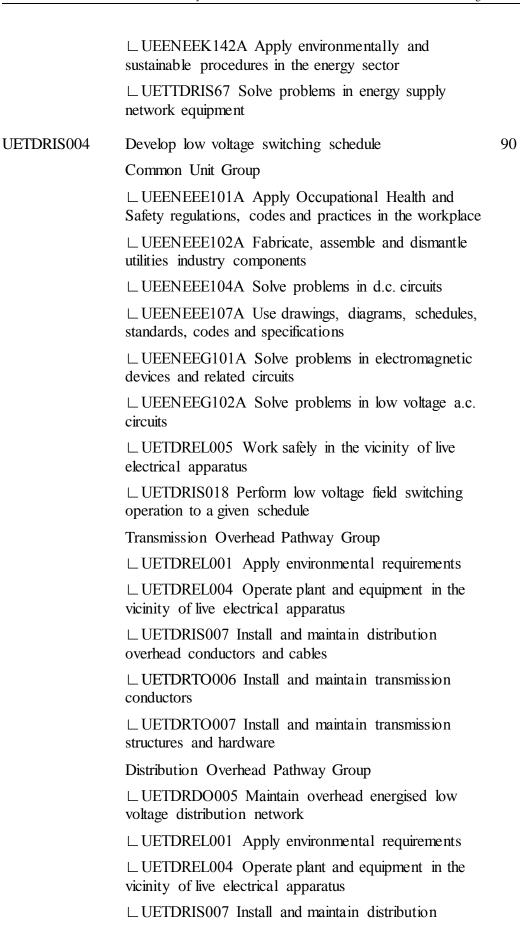
UETDRIS003

standards, codes and specifications ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS017 Perform high voltage field switching operation to a given schedule Transmission Overhead Pathway Group ∟ UETDREL001 Apply environmental requirements ∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus ∟ UETDRIS007 Install and maintain distribution overhead conductors and cables ∟ UETDRTO006 Install and maintain transmission conductors ∟ UETDRTO007 Install and maintain transmission structures and hardware Distribution Overhead Pathway Group ∟ UETDRDO005 Maintain overhead energised low voltage distribution network ∟ UETDREL001 Apply environmental requirements ∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus ∟ UETDRIS007 Install and maintain distribution overhead conductors and cables ∟ UETDRIS008 Install and maintain electrical apparatus ∟ UETDRIS010 Install and maintain low voltage overhead services ∟ UETDRIS012 Install and maintain poles, structures and hardware Rail Traction Pathway Group ∟ UETDREL001 Apply environmental requirements LUETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus ∟ UETDRIS007 Install and maintain distribution overhead conductors and cables

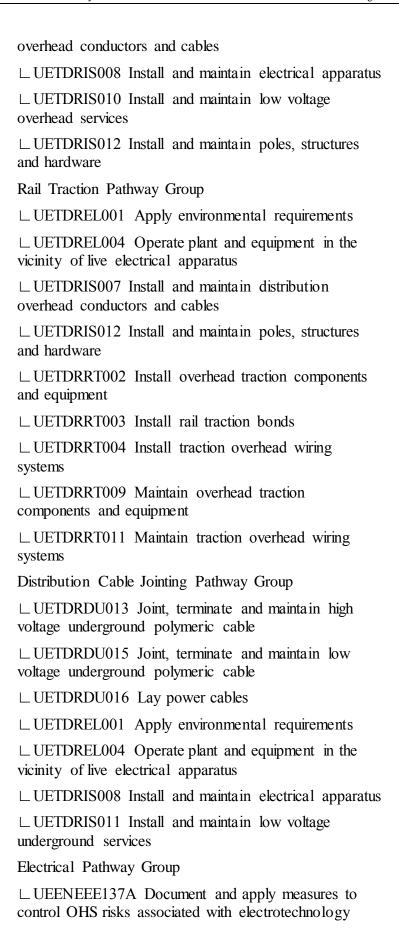
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∟UETDRIS012 Install and maintain poles, structures and hardware
∟UETDRRT002 Install overhead traction components and equipment
∟UETDRRT003 Install rail traction bonds
∟UETDRRT004 Install traction overhead wiring systems
∟UETDRRT009 Maintain overhead traction components and equipment
∟UETDRRT011 Maintain traction overhead wiring systems
Distribution Cable Jointing Pathway Group
∟UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable
∟UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable
∟UETDRDU016 Lay power cables
∟UETDREL001 Apply environmental requirements
∟UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus
∟UETDRIS008 Install and maintain electrical apparatus
∟UETDRIS011 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
LUEENEEG063A 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
LUEENEEG109A Develop and connect electrical control circuits

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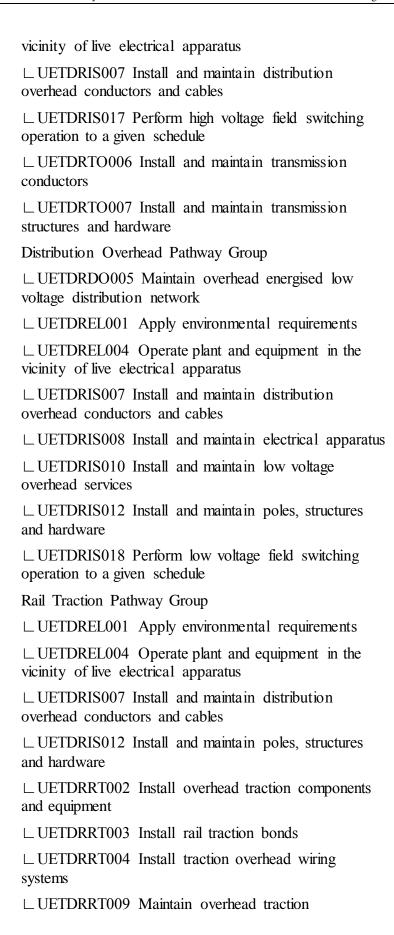
work

∟ 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 LUEENEEG106A 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 mobile generation set for synchronised HV Genset Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components ∟ UEENEEE104A Solve problems in d.c. circuits □ UEENEEE105A Fix and secure electrotechnology equipment ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETDREL005 Work safely in the vicinity of live electrical apparatus Transmission Overhead Pathway Group ∟ UETDREL001 Apply environmental requirements

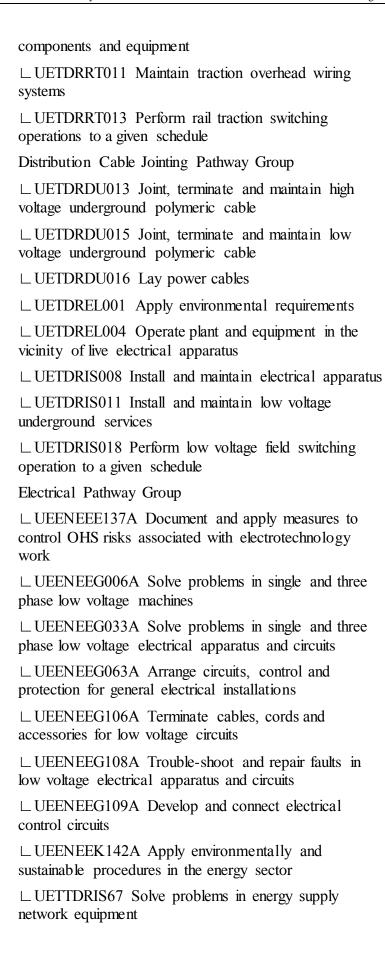
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∟ UETDREL004 Operate plant and equipment in the

**UETDRIS016** 



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UETDRRT005

∟ UETDRSB001 Perform substation switching operations to a given schedule Maintain energised d.c. traction overhead wiring system Pathway 1 Qualified and Authorised Rail Traction Line Worker Pathway 2 ∟BSBLDR414 Lead team effectiveness 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 ∟ UETDREL001 Apply environmental requirements ∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus ∟ UETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS007 Install and maintain distribution overhead conductors and cables ∟ UETDRIS012 Install and maintain poles, structures and hardware ∟ UETDRRT001 Install overhead rail traction configurations ∟ UETDRRT002 Install overhead traction components and equipment ∟ UETDRRT003 Install rail traction bonds ∟ UETDRRT004 Install traction overhead wiring systems ∟ UETDRRT008 Maintain overhead rail traction configurations

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UETDRRT006

∟ UETDRRT009 Maintain overhead traction components and equipment ∟ UETDRRT011 Maintain traction overhead wiring systems ∟ UETDRRT012 Operate rail road height access plant near rail traction systems ∟ UETDRRT014 Test and verify rail traction installations ∟ UETTDRIS65 Contribute to coordinated HV live working Maintain energised traction overhead electrical apparatus 70 using glove techniques Pathway 1 Qualified and Authorised Rail Traction Lineworker Pathway 2 ∟ BSBLDR414 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 LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UETDREL001 Apply environmental requirements LUETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus LUETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS007 Install and maintain distribution overhead conductors and cables ∟ UETDRIS012 Install and maintain poles, structures

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and hardware

∟UETDRRT001 Install overhead rail traction configurations
∟UETDRRT002 Install overhead traction components and equipment
∟UETDRRT003 Install rail traction bonds
∟UETDRRT004 Install traction overhead wiring systems
∟UETDRRT005 Maintain energised d.c. traction overhead wiring system
∟ UETDRRT008 Maintain overhead rail traction configurations
∟UETDRRT009 Maintain overhead traction components and equipment
∟UETDRRT011 Maintain traction overhead wiring systems
∟UETDRRT012 Operate rail road height access plant near rail traction systems
∟UETDRRT014 Test and verify rail traction installations
∟UETTDRIS65 Contribute to coordinated HV live working
Maintain energised traction overhead electrical apparatus 70 using stick techniques
Pathway 1
Qualified and Authorised Rail Traction Line Worker
Pathway 2
∟BSBLDR414 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

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UETDRRT007

	circuits	
	∟UETDREL001 Apply environmental requirements	
	∟ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus	
	∟ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	∟ UETDRIS007 Install and maintain distribution overhead conductors and cables	
	∟UETDRIS012 Install and maintain poles, structures and hardware	
	∟ UETDRRT001 Install overhead rail traction configurations	
	∟ UETDRRT002 Install overhead traction components and equipment	
	∟UETDRRT003 Install rail traction bonds	
	∟ UETDRRT004 Install traction overhead wiring systems	
	∟ UETDRRT005 Maintain energised d.c. traction overhead wiring system	
	∟ UETDRRT008 Maintain overhead rail traction configurations	
	∟ UETDRRT009 Maintain overhead traction components and equipment	
	∟UETDRRT011 Maintain traction overhead wiring systems	
	∟ UETDRRT012 Operate rail road height access plant near rail traction systems	
	∟ UETDRRT014 Test and verify rail traction installations	
	∟ UETTDRIS65 Contribute to coordinated HV live working	
UETDRTO010	Maintain energised transmission lines using barehand techniques from a helicopter	60
	∟ UETDRTO012 Maintain energised transmission lines using live work stick techniques	
UETDRTO011	Maintain energised transmission lines using live work barehand techniques	70
	∟UETDRTO012 Maintain energised transmission lines	

∟UEENEEG102A Solve problems in low voltage a.c.

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using live work stick techniques UETDRTO012 Maintain energised transmission lines using live work 70 stick techniques 60 UETDRVC008 Coordinate vegetation control operations LUEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UETDREL001 Apply environmental requirements ∟ UETDREL005 Work safely in the vicinity of live electrical apparatus ∟ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs ∟ UETDRIS005 Implement & monitor power system environmental & sustainable energy management policies & procedures **UETTDRIS65** Contribute to coordinated HV live working 50

# **Qualification Mapping Information**

This qualification replaces and is equivalent to UET40419 Certificate IV in ESI - Network Systems

#### Links

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

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