



Australian Government

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

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 <input type="checkbox"/> UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE104A	Solve problems in d.c. circuits <input type="checkbox"/> UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	80
UEENEEE105A	Fix and secure electrotechnology equipment <input type="checkbox"/> UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications <input type="checkbox"/> UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEG101A	Solve problems in electromagnetic devices and related circuits <input type="checkbox"/> UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace <input type="checkbox"/> UEENEEE104A Solve problems in d.c. circuits	60
UEENEEG102A	Solve problems in low voltage a.c. circuits <input type="checkbox"/> UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace <input type="checkbox"/> UEENEEE104A Solve problems in d.c. circuits <input type="checkbox"/> UEENEEG101A Solve problems in electromagnetic devices and related circuits	80
UETDREL001	Apply environmental requirements	20

UETDREL004	Operate plant and equipment in the vicinity of live electrical apparatus <ul style="list-style-type: none"> └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace 	40
UETDREL005	Work safely in the vicinity of live electrical apparatus <ul style="list-style-type: none"> └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace 	20
UETDRIS005	Implement & monitor power system environmental & sustainable energy management policies & procedures Electrotechnology Pathway Unit Group <ul style="list-style-type: none"> └ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector ESI - TDR Pathway Unit Group <ul style="list-style-type: none"> └ UETDREL001 Apply environmental requirements 	30
UETDRIS006	Implement and monitor the power system organisational WHS/OHS policies, procedures and programs <ul style="list-style-type: none"> └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UETDREL005 Work safely in the vicinity of live electrical apparatus 	30

Group A: Imported and common elective units**Weighting Points**

AHCMOM213	Operate and maintain chainsaws	20
BSBINS402	Coordinate workplace information systems	40
BSBLDR413	Lead effective workplace relationships	50
BSBLDR414	Lead team effectiveness	50
BSBOPS402	Coordinate business operational plans	40
BSBSTR402	Implement continuous improvement	40
CPCCLRG3001	Licence to perform rigging basic level <ul style="list-style-type: none"> └ CPCCLDG3001 Licence to perform dogging 	40

Group B: Qualification elective units**Weighting Points**

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
	└ 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
 - └ UETDRDO001 Inspect overhead poles, structures and electrical apparatus
 - └ UETDRDO005 Maintain overhead energised low voltage distribution network
 - └ 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
 - └ UETDRIS008 Install and maintain electrical apparatus
 - └ UETDRIS010 Install and maintain low voltage overhead services
 - └ UETDRIS012 Install and maintain poles, structures and hardware
- UETDRDU001 Conduct high voltage testing of underground power cable system 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
 - └ UETDREL005 Work safely in the vicinity of live electrical apparatus

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	

	<ul style="list-style-type: none"> └ 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 └ 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	<p>Joint, terminate and maintain energised low voltage underground polymeric cable</p> <ul style="list-style-type: none"> └ 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 └ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable └ UETDREL001 Apply environmental requirements └ UETDREL005 Work safely in the vicinity of live electrical apparatus 	50
UETDRDU012	<p>Joint, terminate and maintain high voltage underground paper insulated cable</p> <ul style="list-style-type: none"> └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0019 Fabricate, assemble and dismantle utilities industry components 	60

- └ 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,

	standards, codes and specifications	
	<ul style="list-style-type: none"> └ 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
	<ul style="list-style-type: none"> └ 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
	<ul style="list-style-type: none"> └ 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 	

	<ul style="list-style-type: none"> └ UETDREL005 Work safely in the vicinity of live electrical apparatus 	
UETDRDU019	<p>Transition joint high voltage paper insulated cable to high voltage polymeric cable</p> <ul style="list-style-type: none"> └ 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 	50
UETDRIS007	<p>Install and maintain distribution overhead conductors and cables</p> <ul style="list-style-type: none"> └ 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 	60
UETDRIS008	<p>Install and maintain electrical apparatus</p> <ul style="list-style-type: none"> └ UEECD0007 Apply work health and safety 	60

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

and

└ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable

└ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable

or

└ UETDRIS007 Install and maintain distribution overhead conductors and cables

└ UETDRIS012 Install and maintain poles, structures and hardware

UETDRIS010 Install and maintain low voltage overhead 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	
	└ 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	

	<ul style="list-style-type: none"> 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	<p>Install low voltage mobile generator</p> <ul style="list-style-type: none"> └ 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 	50
UETDRIS017	<p>Perform high voltage field switching operation to a given schedule</p> <ul style="list-style-type: none"> └ 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 	50

	electromagnetic devices	
	<ul style="list-style-type: none"> └ 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
	<ul style="list-style-type: none"> └ 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 └ UETDRRT004 Install traction overhead wiring systems 	
UETDRRT002	Install overhead traction components and equipment	50
	<ul style="list-style-type: none"> └ 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

UETDRRT003	<p>Install rail traction bonds</p> <ul style="list-style-type: none"> └ 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 	40
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	<ul style="list-style-type: none"> └ 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
	<ul style="list-style-type: none"> └ 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
	<ul style="list-style-type: none"> └ 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

└ UETDRIS012 Install and maintain poles, structures and hardware

└ UETDRIS007 Install and maintain distribution overhead conductors and cables

└ UETDRRT001 Install overhead rail traction configurations

└ UETDRRT002 Install overhead traction components and equipment

└ UETDRRT004 Install traction overhead wiring systems

└ UETDRRT009 Maintain overhead traction components and equipment

└ UETDRRT011 Maintain traction overhead wiring systems

UETDRRT009 Maintain overhead traction components and equipment 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	
	└ 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	
	└ 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	
	└ UETDRRT003 Install rail traction bonds	
	└ UETDRRT004 Install traction overhead wiring systems	
	└ UETDRRT009 Maintain overhead traction	

	components and equipment	
	└ UETDRRT011 Maintain traction overhead wiring systems	
UETDRRT011	Maintain traction overhead wiring systems	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	
	└ UETDRRT002 Install overhead traction components and equipment	
	└ UETDRRT004 Install traction overhead wiring systems	
UETDRRT012	Operate rail road height access plant near rail traction systems	20
	└ 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	

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	
	└ 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	
	└ 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	

	<ul style="list-style-type: none"> └ 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	<ul style="list-style-type: none"> Inspect and maintain transmission overhead network └ 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) 	40

	<ul style="list-style-type: none"> └ 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
	<ul style="list-style-type: none"> └ 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
	<ul style="list-style-type: none"> └ 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 	

	<ul style="list-style-type: none"> └ 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
	<ul style="list-style-type: none"> └ 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
	<ul style="list-style-type: none"> └ 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: Qualification elective units		Weighting Points
UETDRDO003	Maintain energised high voltage distribution overhead electrical apparatus (glove and barrier)	70
UETDRDO004	Maintain energised high voltage distribution overhead electrical apparatus (stick)	70

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

- environmental & sustainable energy management policies & procedures
- └ UETDRIS006 Implement and monitor the power system organisational WHS/OHS policies, procedures and programs
- UETDRDS010 Draft and layout a power system street lighting system 60
- └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
 - └ UEENEEE102A Fabricate, assemble and dismantle utilities industry components
 - └ UEENEEE104A Solve problems in d.c. circuits
 - └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
 - └ 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
- UETDRDS011 Draft and layout a power system underground distribution extension 60
- └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
 - └ UEENEEE102A Fabricate, assemble and dismantle utilities industry components
 - └ UEENEEE104A Solve problems in d.c. circuits
 - └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
 - └ 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
- UETDRDU003 Install and maintain gas and oil pressure systems for specialised underground cables 65
- └ 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
 - └ UETDRDU009 Install, test and verify distribution underground cable installations
 - └ UETDRDU012 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
- UETDRDU006 Install and maintain polymeric specialised underground cables 65
- └ 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
 - └ UETDRDU009 Install, test and verify distribution underground cable installations
 - └ UETDRDU012 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
- └ 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

└ UETDRDU009 Install, test and verify distribution underground cable installations

└ UETDRDU012 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

UETDRDU018 Maintain gas and oil filled specialised underground cables 60

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

└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

└ UEENEEE104A Solve problems in d.c. circuits

└ 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
- └ UETDRDU008 Install gas and oil filled specialised underground cables
- └ UETDRDU009 Install, test and verify distribution underground cable installations
- └ UETDRDU012 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

UETDRIS001 Coordinate and direct power system switching schedules 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

└ UETDREL005 Work safely in the vicinity of live electrical apparatus

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

└ 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

└ UETDRIS008 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

└ UETDREL004 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

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
- └ UETDRRT013 Perform rail traction switching operations to a given schedule

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
- └ 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
- └ UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits
- └ UEENEEG109A Develop and connect electrical

	control circuits	
	<ul style="list-style-type: none"> └ 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 	
UETDRIS002	Coordinate power system permit procedures	60
	Common Unit Group	
	<ul style="list-style-type: none"> └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus 	
	Transmission Overhead Pathway Group	
	<ul style="list-style-type: none"> └ 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 └ 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	
	<ul style="list-style-type: none"> └ 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
- └ UETDRIS018 Perform low voltage field switching operation to a given schedule

Rail Traction 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
- └ 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
- └ UETDRRT013 Perform rail traction switching operations to a given schedule

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
- └ 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
- └ 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
- └ UETDRSB001 Perform substation switching operations to a given schedule

UETDRIS003 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,

standards, codes and specifications

└ UEENEEG101A Solve problems in electromagnetic devices and related circuits

└ UEENEEG102A 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

└ UETDREL004 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 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
- └ 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	
UETDRIS004	Develop low voltage switching schedule	90
	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	
	└ UEENEEG102A Solve problems in low voltage a.c. circuits	
	└ UETDREL005 Work safely in the vicinity of live electrical apparatus	
	└ UETDRIS018 Perform low 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

└ UETDREL004 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 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

└ 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

└ UETTD RIS67 Solve problems in energy supply network equipment

UETDRIS016 Install mobile generation set for synchronised HV Genset 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

└ UETDREL005 Work safely in the vicinity of live electrical apparatus

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

└ 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

└ UETDRIS008 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

└ UETDREL004 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 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

└ UETDRRT013 Perform rail traction switching operations to a given schedule

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

└ 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

└ 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

- └ UETDRSB001 Perform substation switching operations to a given schedule
- UETDRRT005 Maintain energised d.c. traction overhead wiring system 60
- 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
 - └ 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

- └ 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
- └ UETDRIS65 Contribute to coordinated HV live working

UETDRRT006 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
- └ UEENEEG101A 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
- └ 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

UETDRRT007 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

	<ul style="list-style-type: none"> └ UEEENEEG102A 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 └ 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
	<ul style="list-style-type: none"> └ UETDRTO012 Maintain energised transmission lines using live work stick techniques 	
UETDRTO011	Maintain energised transmission lines using live work barehand techniques	70
	<ul style="list-style-type: none"> └ UETDRTO012 Maintain energised transmission lines 	

	using live work stick techniques	
UETDRTO012	Maintain energised transmission lines using live work stick techniques	70
UETDRVC008	Coordinate vegetation control operations	60
	<ul style="list-style-type: none"> └ UEEENEEE101A 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>