

# **UET40519 Certificate IV in ESI - Power Systems Substations**

Release 1

## **UET40519 Certificate IV in ESI - Power Systems Substations**

## **Modification History**

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

## **Qualification Description**

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

This qualification covers selecting, installing, setting up, testing, fault finding, repairing and maintaining electrical systems and equipment in buildings and premises. It also provides a career in installation and maintenance of substations, such as the maintenance of high voltage (HV) power system, including circuit breakers and transformers. It includes substation switching, inspection and diagnosing and rectifying faults. Options are available for skills to be obtained in high current direct current (d.c.) switchgear and equipment, installation of HV plant and equipment and/or the maintenance and commissioning of discrete protection and control systems.

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

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

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

# **Entry Requirements**

There are no entry requirements for this qualification

## **Packaging Rules**

A total of **1280 weighting points** comprising:

1030 core weighting points listed below; plus

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

Choose a total of 250 **weighting points** elective units from the list below, of which between 0 and 50 **weighting points** can be taken from Group A; between 0 and 120 **weighting points** can be taken from Group B; and between 130 and 250 **weighting points** taken from Group C. You may select all your electives from this group.

Up to 50 weighting points of the general elective units Group A may be selected, with

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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.

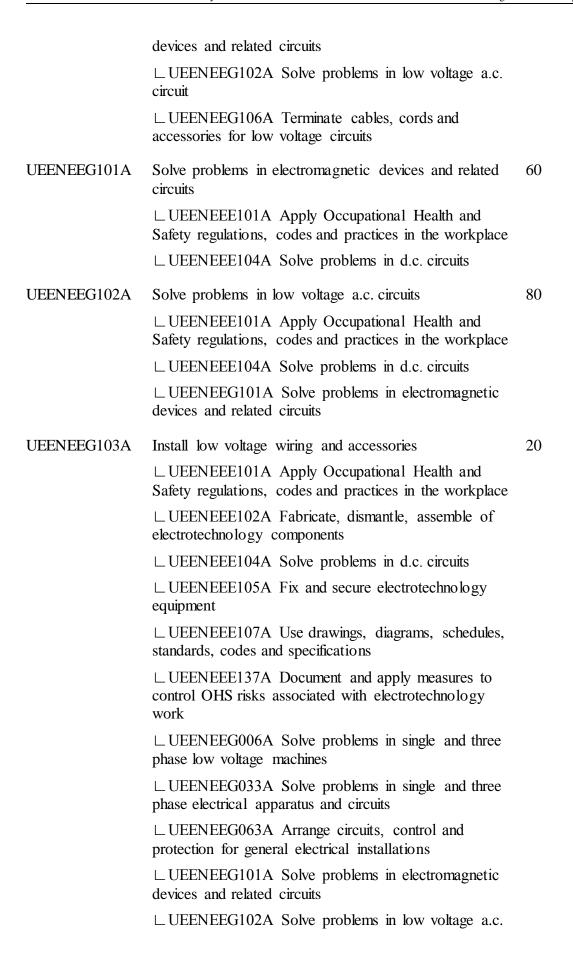
Where imported units are selected, care must be taken to ensure all prerequisite units specified are complied with.

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

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## 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. circuit LUEENEEG106A Terminate cables, cords and accessories for low voltage circuits **UEENEEG033A** Solve problems in single and three phase low voltage 60 electrical apparatus and circuits LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A Fabricate, dismantle, assemble of electrotechnology components LUEENEE104A Solve problems in d.c. circuits □ UEENEEE105A Fix and secure electrotechnology equipment ∟ UEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuit ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UEENEEG063A Arrange circuits, control and protection for general 40 electrical installations LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A Fabricate, dismantle, assemble of electrotechnology components ∟ UEENEEE104A Solve problems in d.c. circuits ∟ UEENEEE105A Fix and secure electrotechnolgy equipment ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications ∟ UEENEEG101A Solve problems in electromagnetic

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# circuit

LUEENEEG106A Terminate cables, cords and accessories for low voltage circuits

∟UEENEEG107A Select wiring systems and cables for low voltage general electrical installations

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

∟ UEENEEG109A Develop and connect electrical control circuits

#### UEENEEG104A

Install appliances, switchgear and associated accessories 20 for low voltage electrical installations

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

∟ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components

∟ UEENEEE104A Solve problems in d.c. circuits

∟ UEENEEE105A Fix and secure electrotechnology equipment

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

□ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work

□ UEENEEG006A Solve problems in single and three
 phase low voltage machines

∟ UEENEEG033A Solve problems in single and three phase electrical apparatus and circuits

☐ UEENEEG063A Arrange circuits, control and protection for general electrical installations

∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits

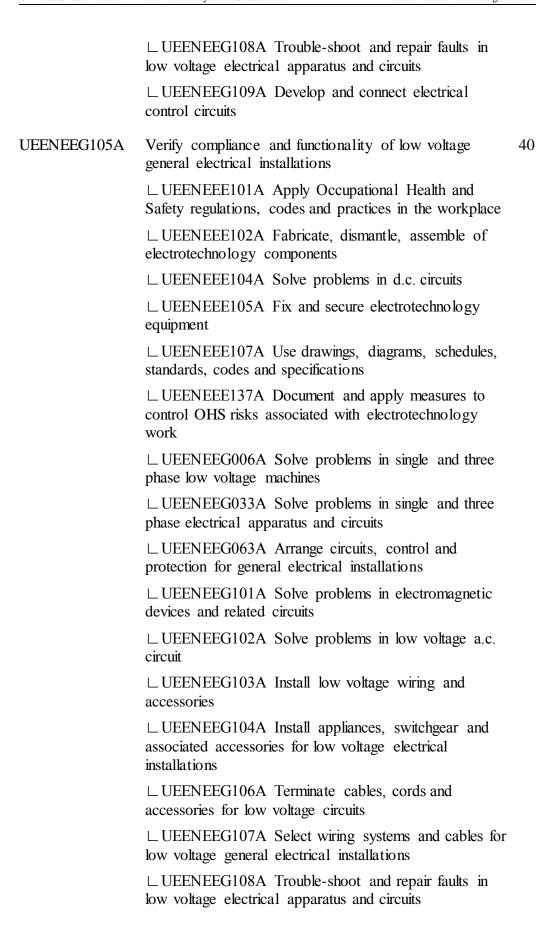
∟ UEENEEG102A Solve problems in low voltage a.c. circuit

∟ UEENEEG103A Install low voltage wiring and accessories

∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

∟UEENEEG107A Select wiring systems and cables for low voltage general electrical installations

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∟ UEENEEG109A Develop and connect electrical control circuits

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

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

#### **UEENEEG106A**

Terminate cables, cords and accessories for low voltage 40 circuits

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

∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components

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

#### UEENEEG107A

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

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

∟ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components

LUEENEEE104A Solve problems in d.c. circuits

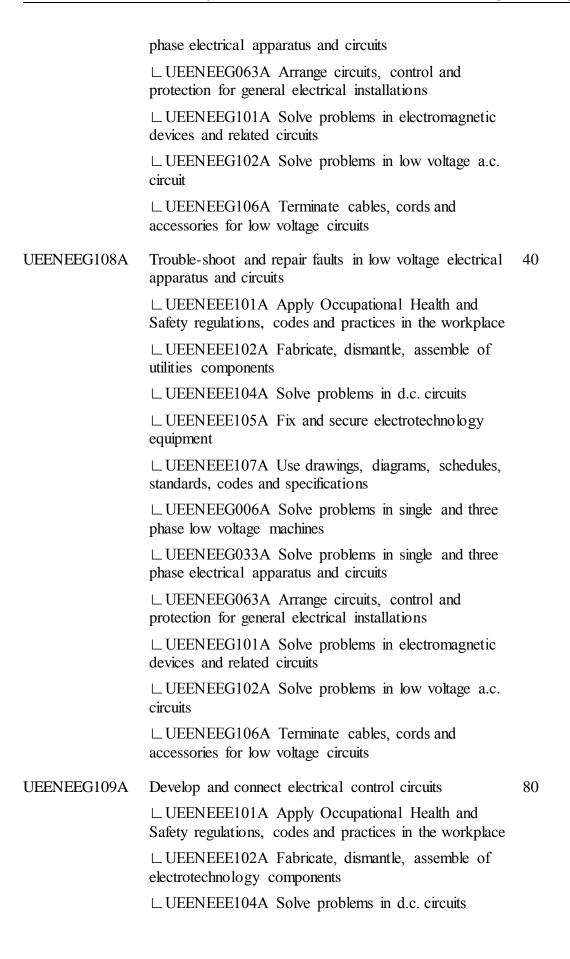
∟ UEENEEE105A Fix and secure electrotechnology equipment

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

∟ UEENEEG006A Solve problems in single and three phase low voltage machines

∟ UEENEEG033A Solve problems in single and three

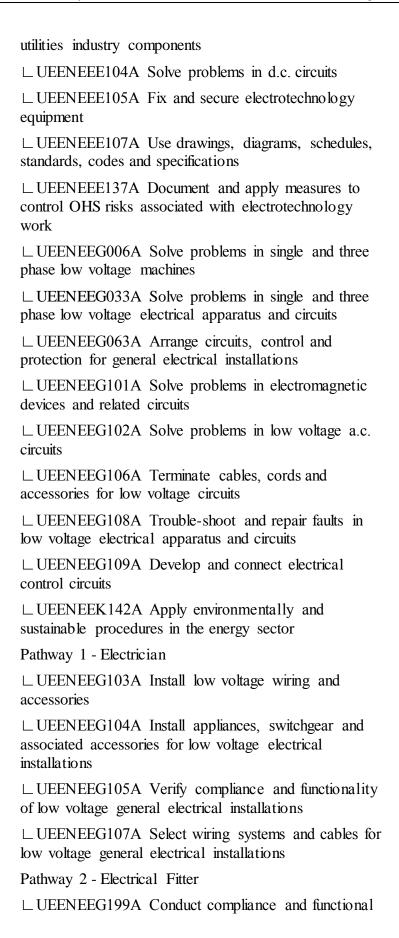
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Approved Page 9 of 34 Australian Industry Standards

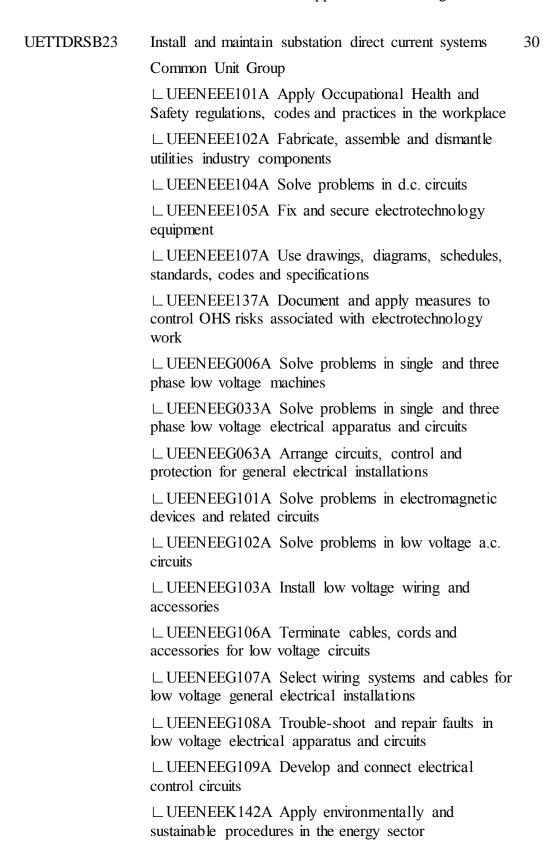
	∟ UEENEEE105A Fix and secure electrotechnology equipment	
	□ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	□ UEENEEG006A Solve problems in single and three phase low voltage machines	
	☐ UEENEEG063A Arrange circuits, control and protection for general electrical installations	
	☐ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuit	
UEENEEK 142A	Apply environmentally and sustainable procedures in the energy sector	20
UETTDREL16	Working safely near live electrical apparatus	20
UETTDRIS62	Implement and monitor the power system organisational WHS/OHS policies, procedures and programs	30
	Common Unit Group	
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UETTDREL16 Working safely near live electrical apparatus	
UETTDRIS63	Implement & monitor power system environmental & sustainable energy management policies & procedures	30
	Electrotechnology Pathway Unit Group	
	LUEENEEK142A Apply environmentally and sustainable procedures in the energy sector	
	ESI - TDR Pathway Unit Group	
	∟ UETTDREL11 Apply sustainable energy and environmental procedures	
UETTDRSB22	Carry out power systems substation inspection	60
	Common Unit Group	
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle	

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verification of electrical apparatus and existing circuits



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Group A: Imported and common elective units		Weighting Points
BSBINM401	Implement workplace information system	40
BSBLDR402	Lead effective workplace relationships	50
BSBLDR403	Lead team effectiveness	50
BSBMGT402	Implement operational plan	40
BSBMGT403	Implement continuous improvement	40
Group B: Qualific	cation elective units	Weighting Points
UETTDRIS47	Sample, test, filter and reinstate insulating oil	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	
	☐ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work	
	∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
	∟UEENEEG102A Solve problems in low voltage a.c. circuits	
	∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
	☐ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector	
	∟UETTDREL16 Working safely near live electrical apparatus	

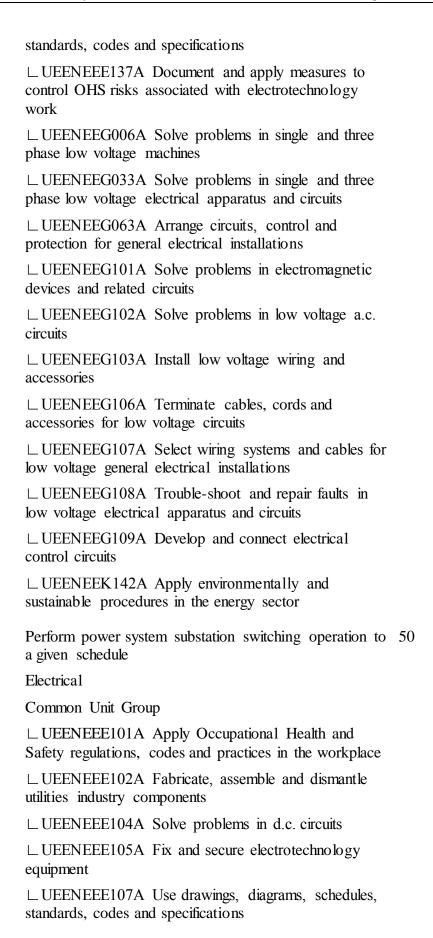
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UETTDRIS67	Solve problems in energy supply network equipment	80
	Common Unit Group	
	☐ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	∟UEENEEE102A Fabricate, assemble and dismantle utilities industry 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	
	∟ UEENEEG006A Solve problems in single and three phase low voltage machines	
	∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UETTDRIS68	Solve problems in energy supply network protection equipment and systems	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	
	Circuits	
	☐ UEENEEG006A Solve problems in single and three phase low voltage machines	

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accessories for low voltage circuits ∟ UETTDRIS67 Solve problems in energy supply network equipment **UETTDRSB29** Maintain capacitor bank equipment for voltage 40 regulation Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A Solve problems in d.c. circuits □ UEENEEE105A Fix and secure electrotechnology equipment ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work ∟ UEENEEG006A Solve problems in single and three phase low voltage machines LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits ∟ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector **UETTDRSB33** 50 Install high voltage plant and equipment Common Unit Group LUEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A Solve problems in d.c. circuits ∟ UEENEEE105A Fix and secure electrotechnology equipment LUEENEE107A Use drawings, diagrams, schedules,

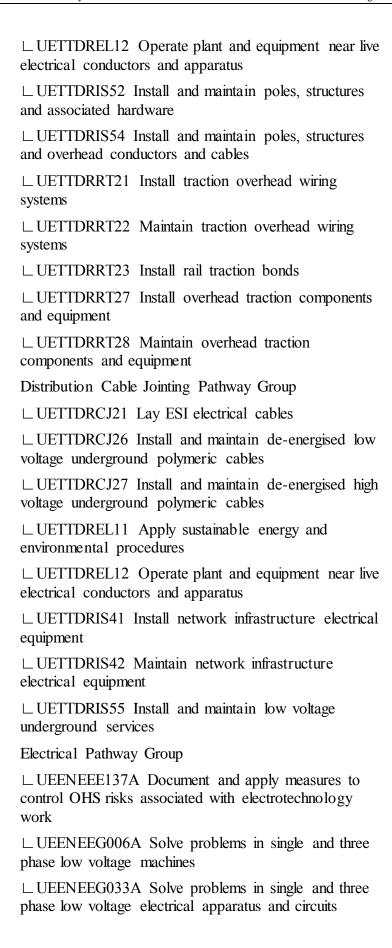
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☐ UEENEEG101A Solve problems in electromagnetic devices and related circuits
∟UEENEEG102A Solve problems in low voltage a.c. circuits
∟UETTDREL16 Working safely near live electrical apparatus
Transmission Overhead Pathway Group
∟UETTDREL11 Apply sustainable energy and environmental procedures
$\hfill \hfill $
∟UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables
∟UETTDRTP26 Install transmission structures and associated hardware
∟UETTDRTP27 Maintain transmission structures and associated hardware
∟UETTDRTP29 Install and maintain transmission overhead conductors and cables
Distribution Overhead Pathway Group
∟UETTDRDP12 Maintain overhead energised low voltage conductors and cables
∟UETTDREL11 Apply sustainable energy and environmental procedures
∟UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus
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∟ UETTDRIS42 Maintain network infrastructure electrical equipment
∟UETTDRIS52 Install and maintain poles, structures and associated hardware
∟UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables
∟ UETTDRIS56 Install and maintain low voltage overhead services
Rail Traction Pathway Group
∟ UETTDREL11 Apply sustainable energy and environmental procedures

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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

#### **Group C: Qualification elective units**

### Weighting Points

UETTDRSB21 Diagnose and rectify faults in substation environment 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

∟ 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

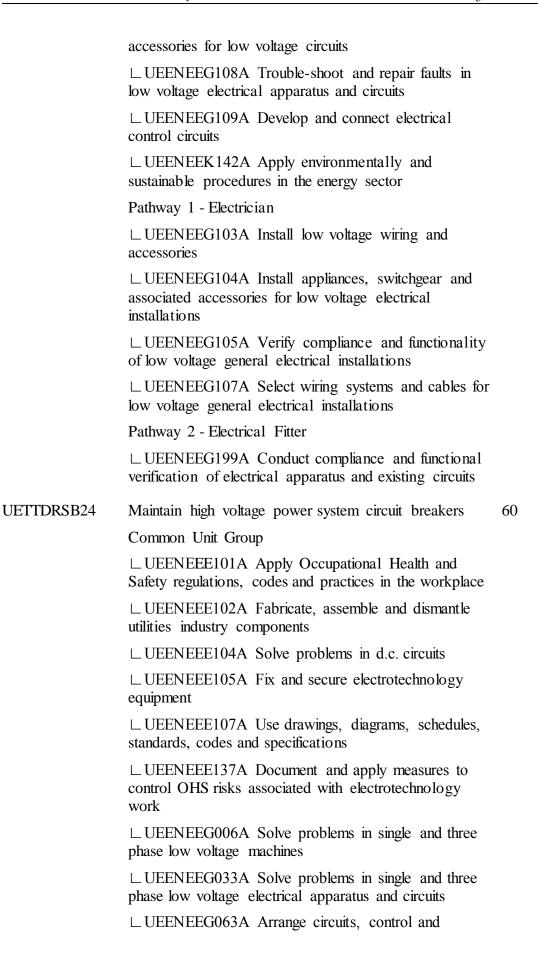
∟UEENEEG063A Arrange circuits, control and protection for general electrical installations

☐ UEENEEG101A Solve problems in electromagnetic devices and related circuits

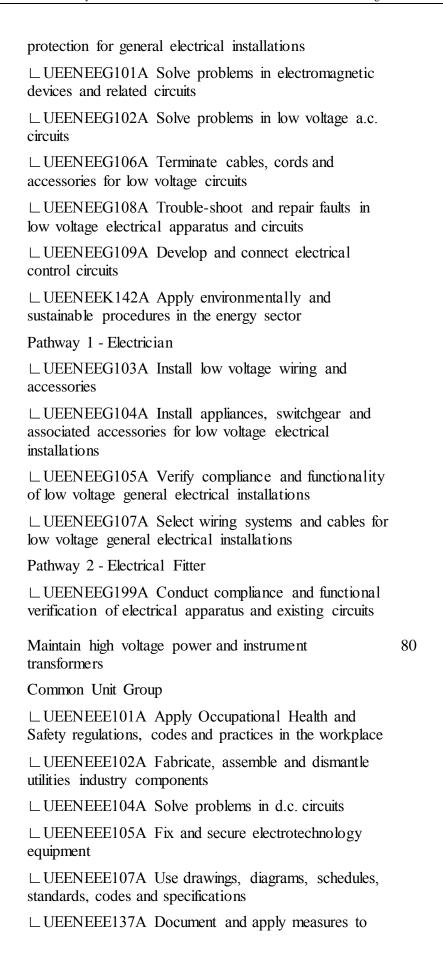
∟UEENEEG102A Solve problems in low voltage a.c. circuits

∟ UEENEEG106A Terminate cables, cords and

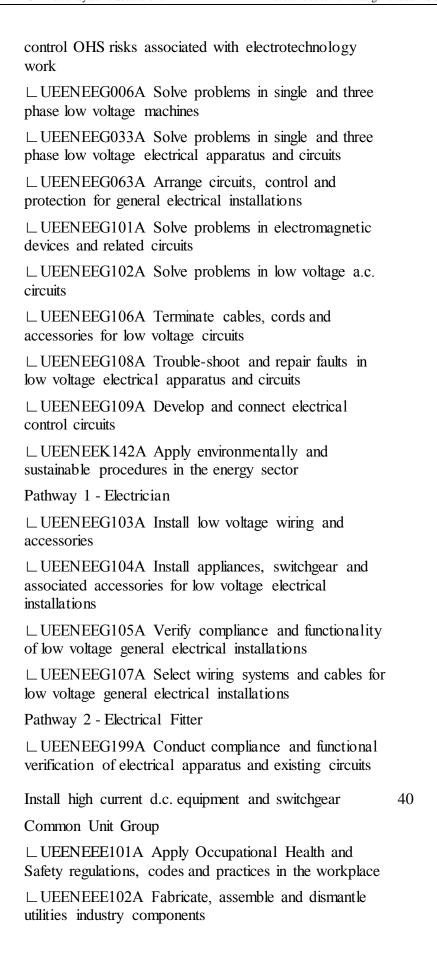
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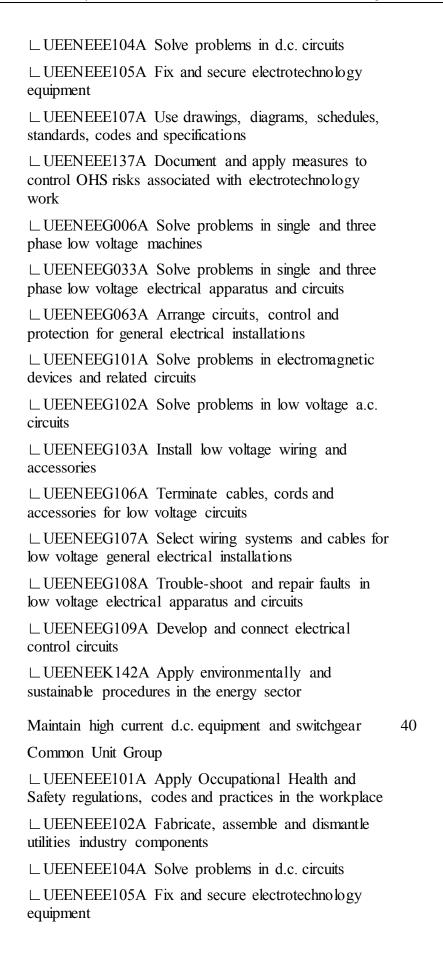
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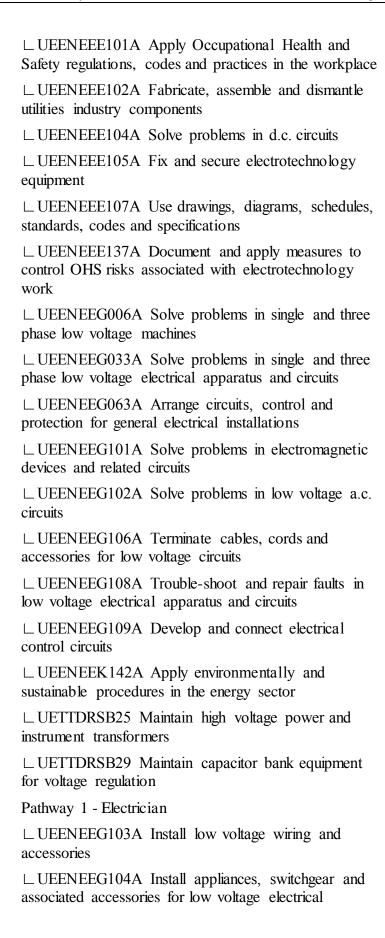
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∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
∟ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work	
∟ UEENEEG006A Solve problems in single and three phase low voltage machines	
☐ UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits	
☐ UEENEEG063A Arrange circuits, control and protection for general electrical installations	
☐ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
∟ UEENEEG102A Solve problems in low voltage a.c. circuits	
∟ 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	
Pathway 1 - Electrician	
∟ UEENEEG103A Install low voltage wiring and accessories	
∟ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations	
∟ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations	
∟UEENEEG107A Select wiring systems and cables for low voltage general electrical installations	
Pathway 2 - Electrical Fitter	
∟ UEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits	
Maintain high voltage power system static VAR compensators (SVC)	30
Common Unit Group	

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**UETTDRSB31** 

# installations LUEENEEG105A Verify compliance and functionality of low voltage general electrical installations LUEENEEG107A Select wiring systems and cables for low voltage general electrical installations Pathway 2 - Electrical Fitter LUEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits Maintain high voltage power system synchronous 50 condensers Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A Solve problems in d.c. circuits ∟ UEENEE105A Fix and secure electrotechnology equipment ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work LUEENEEG006A Solve problems in single and three phase low voltage machines LUEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits LUEENEEG063A Arrange circuits, control and protection for general electrical installations LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits LUEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits

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∟ UEENEEG109A Develop and connect electrical

control circuits

∟ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector Pathway 1 - Electrician LUEENEEG103A Install low voltage wiring and accessories LUEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations LUEENEEG105A Verify compliance and functionality of low voltage general electrical installations LUEENEEG107A Select wiring systems and cables for low voltage general electrical installations Pathway 2 - Electrical Fitter LUEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits Maintain power transformer on load tap changers 80 (OLTC) Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A Solve problems in d.c. circuits □ UEENEEE105A Fix and secure electrotechnology equipment LUEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work ∟ UEENEEG006A Solve problems in single and three phase low voltage machines ∟ UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits ∟ UEENEEG063A Arrange circuits, control and protection for general electrical installations LUEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c.

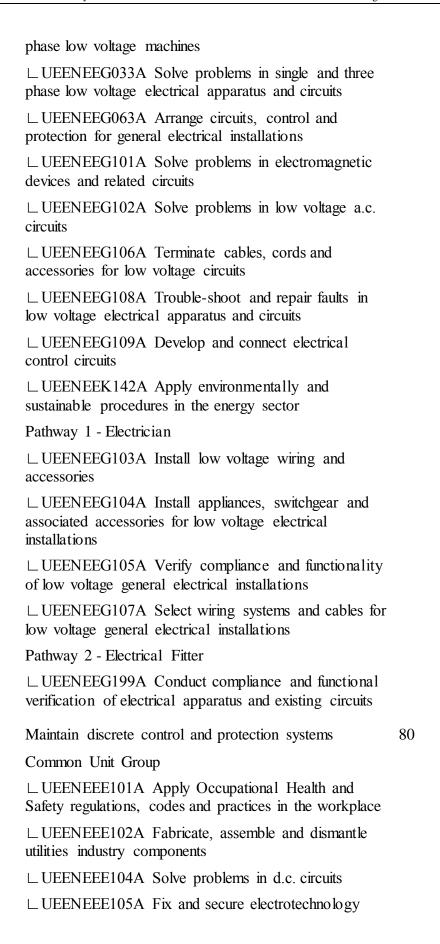
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# circuits ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits LUEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits ∟ UEENEEG109A Develop and connect electrical control circuits ∟ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector ∟ UETTDRSB25 Maintain high voltage power and instrument transformers Pathway 1 - Electrician LUEENEEG103A Install low voltage wiring and accessories LUEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations LUEENEEG105A Verify compliance and functionality of low voltage general electrical installations LUEENEEG107A Select wiring systems and cables for low voltage general electrical installations Pathway 2 - Electrical Fitter LUEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits Carry out surveys using thermovision techniques 30 Common Unit Group LUEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ∟ UEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A Solve problems in d.c. circuits ∟ UEENEEE105A Fix and secure electrotechnology equipment ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

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∟ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology

□ UEENEEG006A Solve problems in single and three



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# equipment ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work ∟ UEENEEG006A Solve problems in single and three phase low voltage machines LUEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits ∟ UEENEEG063A Arrange circuits, control and protection for general electrical installations LUEENEEG101A Solve problems in electromagnetic devices and related circuits □ UEENEEG102A Solve problems in low voltage a.c. circuits ∟ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits LUEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits ∟ UEENEEG109A Develop and connect electrical control circuits ∟ UEENEEK142A Apply environmentally and sustainable procedures in the energy sector Pathway 1 - Electrician LUEENEEG103A Install low voltage wiring and accessories LUEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations ∟ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations ∟ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations Pathway 2 - Electrical Fitter LUEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits

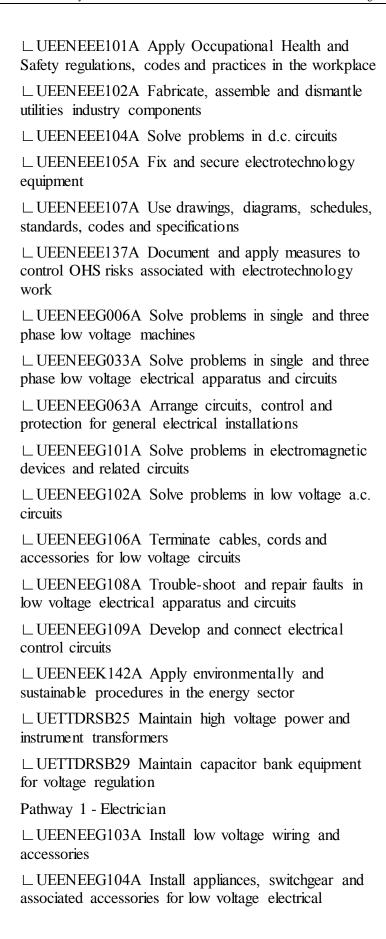
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Commission discrete control and protection systems

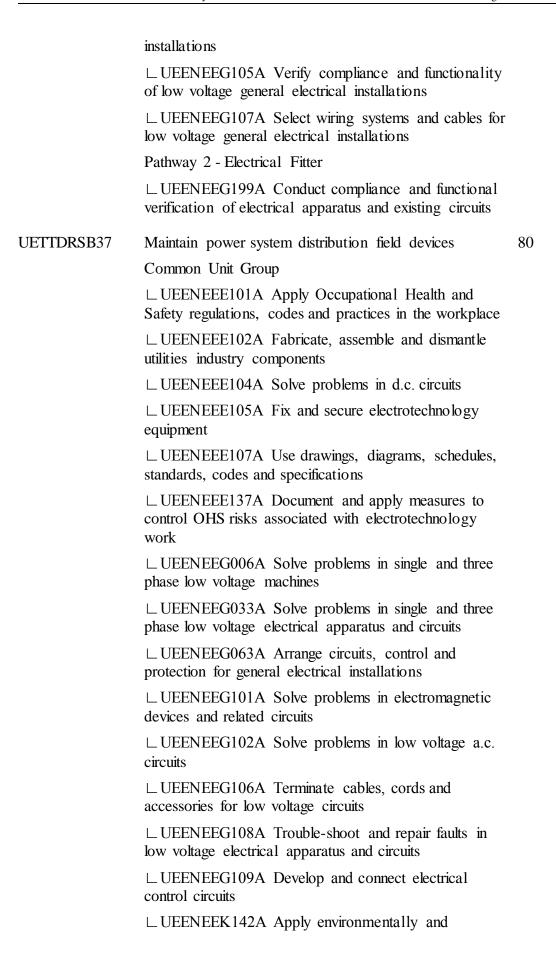
Common Unit Group

**UETTDRSB36** 

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sustainable procedures in the energy sector Pathway 1 - Electrician ∟ UEENEEG103A Install low voltage wiring and accessories ∟ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations LUEENEEG105A Verify compliance and functionality of low voltage general electrical installations LUEENEEG107A Select wiring systems and cables for low voltage general electrical installations Pathway 2 - Electrical Fitter ∟ UEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits Commission power system distribution field devices 30 Common Unit Group LUEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace LUEENEEE102A Fabricate, assemble and dismantle utilities industry components LUEENEEE104A Solve problems in d.c. circuits ∟ UEENEEE105A Fix and secure electrotechnology equipment ∟ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications LUEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work ∟ UEENEEG006A Solve problems in single and three phase low voltage machines ∟ UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits ∟ UEENEEG063A Arrange circuits, control and protection for general electrical installations ∟ UEENEEG101A Solve problems in electromagnetic devices and related circuits LUEENEEG102A Solve problems in low voltage a.c. circuits ∟ UEENEEG106A Terminate cables, cords and

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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
∟ UETTDRSB37 Maintain power system distribution field devices
Pathway 1 - Electrician
LUEENEEG103A Install low voltage wiring and accessories
☐ UEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations
☐ UEENEEG105A Verify compliance and functionality of low voltage general electrical installations
☐ UEENEEG107A Select wiring systems and cables for low voltage general electrical installations
Pathway 2 - Electrical Fitter
☐ UEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits

# **Qualification Mapping Information**

This qualification replaces and is equivalent to UET40512 Certificate IV in ESI - Power Systems Substations

## Links

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

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