



Australian Government

UEE41025 Certificate IV in Energy Management and Control

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Modification History

Release	Comments
1	This qualification was first released in UEE Electrotechnology Training Package Release 8.0.

Qualification Description

This qualification covers competencies to develop strategies for the reduction of energy in buildings and to recommend changes in the way in which energy is controlled in the building, either by the installation of new control equipment or by the modification or re-programming of existing control equipment.

This qualification has no minimum work placement hours.

Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Entry Requirements

The entry requirement for this qualification is:

- UEE30820 Certificate III in Electrotechnology Electrician

or

- a current ‘Unrestricted Electricians Licence’ or its equivalent issued in an Australian state or territory.

Packaging Rules

A total of **440 weighting points** comprising:

140 core weighting points listed below; plus

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

Choose a total of **300 weighting points** elective units from the list below, of which between **0 and 100 weighting points** can be taken from Group A; between **0 and**

100 weighting points can be taken from Group B; and between **200 and 300 weighting points** can be taken from Group C (or all electives units of **300 weighting points** can be taken from Group C).

Up to **100 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 that selected units contribute to the vocational outcome of the qualification. If weighting points are not listed for an imported unit in any other UEE qualification, default weighting will be 10 points.

There are units of competency within this qualification that contain pre-requisites. Units of competency that have a pre-requisite requirement are identified by this symbol *. Refer directly to the units of competency to identify pre-requisite requirements to ensure all are complied with. A list of all pre-requisites is also provided in the UEE Pre-requisite Companion Volume.

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

Core units	Weighting Points
UEECD0010	Compile and produce an energy sector detailed report
UEECD0024	Implement and monitor energy sector WHS policies and procedures
UEECD0027	Participate in development and follow a personal competency development plan
UEERE0068	Develop strategies to address sustainability issues for electrical installations*
UEERE0015	Implement and monitor energy sector environmental and sustainable policies and procedures
Group A: Imported and common elective units	Weighting Points
BSBOPS203	Deliver a service to customers
CPCWHS1001	Prepare to work safely in the construction industry
HLTAID009	Provide cardiopulmonary resuscitation
ICTICT214	Operate application software packages

UEECD0011	Comply with scheduled and preventative maintenance program processes	20
UEECD0035	Provide basic instruction in the use of electrotechnology apparatus	20
UEECO0002	Maintain documentation	20
UEECO0015	Provide quotations for installation or service jobs	20
UEECO0017	Source and purchase material/parts for installation or service jobs	20
Group B: Qualification elective units		Weighting Points
UEECD0028	Plan an integrated cabling installation system*	40
UEECS0033	Use engineering applications software on personal computers	40
UEEDV0005	Install and maintain cabling for multiple access to telecommunication services*	80
UEEDV0008	Install, modify and verify coaxial and structured communication copper cabling*	40
UEEEC0060	Repairs basic electronic apparatus faults by replacement of components*	40
UEEEC0075	Troubleshoot single phase input d.c power supplies*	40
UEEEL0016	Provide advice on effective and energy efficient lighting products	20
UEEEL0022	Supply effective and efficient lighting products for domestic and small commercial applications*	40
UEEEL0049	Install and maintain emergency safety systems*	60
UEEEL0061	Provide advice on the application of energy efficient lighting for ambient and aesthetic effect*	20
UEEEL0078	Install and commission whole current electricity meters*	20
UEEIC0002	Assemble, enter and verify operating instructions in microprocessor equipped devices*	20

UEEIC0011	Develop electrical integrated systems*	20
UEEIC0013	Develop, enter and verify discrete control programs for programmable controllers*	60
UEEIC0038	Solve problems in density/level measurement components and systems*	40
UEEIC0039	Solve problems in flow measurement components and systems*	40
UEEIC0041	Solve problems in pressure measurement components and systems*	40
UEEIC0043	Solve problems in temperature measurement components and systems*	40
UEEEL0076	Inspect, test and maintain emergency lighting systems*	20
UEEEL0075	Inspect, test and maintain emergency alarm systems and equipment*	20

Group C: Qualification elective units		Weighting Points
CPPHES4005	Assess household energy use and efficiency improvements	40
UEECD0061	Write specifications for refrigeration and air conditioning engineering projects	40
UEEEL0007	Develop detailed electrical drawings*	60
UEEEL0029	Conduct compliance inspection of LV electrical installations with demand exceeding 100 A per phase*	40
UEEEL0030	Conduct compliance inspection of single phase LV electrical installations*	60
UEEEL0031	Conduct compliance inspection of special LV electrical installations*	60
UEEEL0036	Design effective and efficient lighting for residential and commercial buildings*	20
UEEEL0040	Develop compliance policies and plans to conduct an electrical contracting business*	80

UEEEL0044	Diagnose and rectify faults in complex lift systems*	40
UEEEL0050	Install and replace low voltage current transformer metering*	20
UEEEL0051	Investigate and report on electrical incidents and causes*	60
UEEEL0057	Plan electrical installations with a low voltage demand up to 400 A per phase*	40
UEEEL0059	Plan low voltage switchboard and control panel layouts*	40
UEEEL0060	Prepare quotations for the supply of effective and efficient lighting products for lighting projects*	20
UEEEL0063	Provide photometric data for illumination system design	60
UEEEL0070	Select effective and efficient light sources and luminaries for given locations and designs*	60
UEEEL0071	Select low voltage power factor correction equipment*	40
UEEEL0072	Set up and place LV electrical apparatus and associated circuits into service*	40
UEEEL0073	Verify compliance and functionality of special LV electrical installations*	40
UEERE0052	Assess energy loads and uses for energy efficiency in commercial facilities*	40
UEERE0053	Assess energy loads and uses for energy efficiency in industrial properties and enterprises*	40

Pre-requisite Requirements

Unit of competency	Prerequisite requirement
UEEEC0075 Troubleshoot single phase input d.c power supplies	UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEC0065 Solve problems in basic electronic circuits UEECD0043 Solve problems in direct current circuits

	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p> <p>UEECD0045 Solve problems in multiple path extra-low voltage (ELV) a.c. circuits</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
<p>UEEEL0061 Provide advice on the application of energy efficient lighting for ambient and aesthetic effect</p>	<p>UEEEL0022 Supply effective and efficient lighting products for domestic and small commercial applications</p> <p>UEEEL0016 Provide advice on effective and energy efficient lighting products</p>
<p>UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling</p>	<p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEDV0005 Install and maintain cabling for multiple access to telecommunication services</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>

	<p>UEECD0046 Solve problems in single path circuits</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEIC0002 Assemble, enter and verify operating instructions in microprocessor equipped devices	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEL0060 Prepare quotations for the supply of effective and efficient lighting products for lighting projects	<p>UEEEL0070 Select effective and efficient light sources and luminaries for given locations and designs</p> <p>UEEEL0063 Provide photometric data for illumination system design</p>
UEEEC0060 Repairs basic electronic apparatus faults by replacement of components	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p>
UEEEL0022 Supply effective and efficient lighting products for domestic and small commercial applications	UEEEL0016 Provide advice on effective and energy efficient lighting products
UEEEL0078 Install and commission whole current electricity meters	UEEEL0039 Design, install and verify compliance and functionality of general electrical installations

	UETDRRF004 Perform rescue from a live low voltage panel
UEERE0053 Assess energy loads and uses for energy efficiency in industrial properties and enterprises	UEERE0068 Develop strategies to address sustainability issues for electrical installations
UEEIC0011 Develop electrical integrated systems	<p>ICTICT203 Operate application software packages</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits</p>
UEECD0028 Plan an integrated cabling installation system	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p>

	<p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits</p>
UEEEL0070 Select effective and efficient light sources and luminaries for given locations and designs	UEEEL0063 Provide photometric data for illumination system design
UEEIC0013 Develop, enter and verify discrete control programs for programmable controllers	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEL0036 Design effective and efficient lighting for residential and commercial buildings	<p>UEEEL0070 Select effective and efficient light sources and luminaries for given locations and designs</p> <p>UEEEL0063 Provide photometric data for illumination system design</p>
UEEDV0005 Install and maintain cabling for multiple access to telecommunication services	<p>UEECD0043 Solve problems in direct current circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>

	<p>UEEEL0007 Develop detailed electrical drawings</p> <p>UEECD0031 Prepare engineering drawings using manual drafting and CAD for electrotechnology applications</p> <p>UEECD0032 Produce detailed electrotechnology/utilities drawings using CAD equipment and software</p> <p>UEECD0030 Prepare electrotechnology/utilities drawings using manual drafting and CAD equipment and software</p>
<p>UEEEL0075 Inspect, test and maintain emergency alarm systems and equipment</p>	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p>

UEEEL0051 Investigate and report on electrical incidents and causes	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEL0005 Develop and connect electrical control circuits</p> <p>UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories</p> <p>UEEEL0018 Select wiring systems and select cables for low voltage electrical installations</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p>
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	<p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEIC0039 Solve problems in flow measurement components and systems	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEIC0041 Solve problems in pressure measurement components and systems</p> <p>UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals</p>
UEEEL0044 Diagnose and rectify faults in complex lift systems	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p>

	<p>UEEEL0045 Diagnose and rectify faults in traction lift systems</p> <p>UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEIC0020 Fault find and repair analogue circuits and components in electronic control systems</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p>
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	<p>UEEIC0018 Diagnose and rectify faults in digital controls systems</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEERE0068 Develop strategies to address sustainability issues for electrical installations	<p>UEERE0051 Apply electrical principles to renewable energy design</p> <p>UEEEL0039 Design, install and verify compliance and functionality of general electrical installations</p>
UEERE0052 Assess energy loads and uses for energy efficiency in commercial facilities	UEERE0068 Develop strategies to address sustainability issues for electrical installations
UEEEL0049 Install and maintain emergency safety systems	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEL0005 Develop and connect electrical control circuits</p> <p>UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p>

	<p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories</p> <p>UEEEL0018 Select wiring systems and select cables for low voltage electrical installations</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
<p>UEEIC0041 Solve problems in pressure measurement components and systems</p>	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p>

	UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals
UEEEL0072 Set up and place LV electrical apparatus and associated circuits into service	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEL0005 Develop and connect electrical control circuits</p> <p>UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories</p>

	<p>UEEEL0018 Select wiring systems and select cables for low voltage electrical installations</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEEEL0039 Design, install and verify compliance and functionality of general electrical installations</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
<p>UEEIC0038 Solve problems in density/level measurement components and systems</p>	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEIC0041 Solve problems in pressure measurement components and systems</p> <p>UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals</p>

UEEIC0043 Solve problems in temperature measurement components and systems	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals</p>
UEEEL0057 Plan electrical installations with a low voltage demand up to 400 A per phase	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEL0018 Select wiring systems and select cables for low voltage electrical installations</p>

	<p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
<p>UEEEL0076 Inspect, test and maintain emergency lighting systems</p>	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p>

	<p>UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEEL0059 Plan low voltage switchboard and control panel layouts	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p>

	<p>UEEEL0018 Select wiring systems and select cables for low voltage electrical installations</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
<p>UEEEL0050 Install and replace low voltage current transformer metering</p>	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEL0005 Develop and connect electrical control circuits</p> <p>UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>

	<p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories</p> <p>UEEEL0018 Select wiring systems and select cables for low voltage electrical installations</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEEEL0039 Design, install and verify compliance and functionality of general electrical installations</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p>
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	<p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEEL0071 Select low voltage power factor correction equipment	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEL0005 Develop and connect electrical control circuits</p> <p>UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories</p>

	<p>UEEEL0018 Select wiring systems and select cables for low voltage electrical installations</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEEEL0039 Design, install and verify compliance and functionality of general electrical installations</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
<p>UEEEL0031 Conduct compliance inspection of special LV electrical installations</p>	<p>UEEEL0069 Select and arrange equipment for special LV electrical installations</p> <p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEL0005 Develop and connect electrical control circuits</p>

	<p>UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories</p> <p>UEEEL0018 Select wiring systems and select cables for low voltage electrical installations</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEEEL0039 Design, install and verify compliance and functionality of general electrical installations</p> <p>UEEEL0073 Verify compliance and functionality of special LV electrical installations</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p>
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	<p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0029 Conduct compliance inspection of LV electrical installations with demand exceeding 100 A per phase</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p> <p>UEEEL0030 Conduct compliance inspection of single phase LV electrical installations</p>
<p>UEEEL0029 Conduct compliance inspection of LV electrical installations with demand exceeding 100 A per phase</p>	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEL0005 Develop and connect electrical control circuits</p> <p>UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p>

	<p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories</p> <p>UEEEL0018 Select wiring systems and select cables for low voltage electrical installations</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEEEL0039 Design, install and verify compliance and functionality of general electrical installations</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p>
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	<p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p> <p>UEEEL0030 Conduct compliance inspection of single phase LV electrical installations</p>
UEEEL0073 Verify compliance and functionality of special LV electrical installations	<p>UEEEL0069 Select and arrange equipment for special LV electrical installations</p> <p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEL0005 Develop and connect electrical control circuits</p> <p>UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work</p>

	<p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories</p> <p>UEEEL0018 Select wiring systems and select cables for low voltage electrical installations</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEEEL0039 Design, install and verify compliance and functionality of general electrical installations</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEEL0040 Develop compliance policies and plans to conduct an electrical contracting business	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEEEL0030 Conduct compliance inspection of single phase LV electrical installations	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEL0005 Develop and connect electrical control circuits</p> <p>UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEL0025 Test and connect transformers</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories</p> <p>UEEEL0018 Select wiring systems and select cables for low voltage electrical installations</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p>
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	<p>UEEEL0039 Design, install and verify compliance and functionality of general electrical installations</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEL0024 Test and connect alternating current (a.c.) rotating machines</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
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Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
UEE41025 Certificate IV in Energy Management and Control	UEE41020 Certificate IV in Energy Management and Control	This qualification replaces and is equivalent to UEE41020 Certificate IV in Energy Management and Control	Equivalent

Links

Companion volumes, including implementation guides, are found in TGA -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>