



Australian Government

**UEE61720 Advanced Diploma of
Engineering Technology - Electronics**

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Modification History

Release	Comments
3	Updated superseded imported elective units.
2	<p>This is the second release of this qualification in the UEE Electrotechnology Training Package. Modifications include:</p> <ul style="list-style-type: none"> • Updated superseded imported elective units • The following units added to electives (see UEE Release 5.0 Companion Volume Implementation Guide for mapping of deleted UEE units to imported ICT and MEM units): <ul style="list-style-type: none"> ○ ICTICT518 ○ ICTNWK307 ○ ICTNWK309 ○ ICTNWK424 ○ ICTNWK426 ○ ICTNWK561 ○ ICTNWK624 ○ ICTNWK625 ○ ICTPRG440. ○ ICTPRG444 ○ ICTPRG534 ○ ICTPRG549 ○ ICTTEN409 ○ ICTTEN420 ○ ICTWEB447 ○ MEM234010A.
1	This qualification was first released in UEE Electrotechnology Training Package Release 2.0.

Qualification Description

This qualification covers competencies to design and validate/evaluate electronics and/or communication equipment and systems and provide technical advice/sales.

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

There are no entry requirements for this qualification.

Packaging Rules

A total of **2160 weighting points** comprising:

1160 core weighting points listed below; plus

1000 general elective weighting points from the general elective units listed below.

Choose a total of **1000 weighting points** elective units from the list below, of which between **0 and 360 weighting points** can be taken from Group A; and between **0 and 200 weighting points** must be taken from Group B; and between **0 and 200 weighting points** must be taken from Group C; and between **0 and 300 weighting points** must be taken from Group D; and between **280 and 900 weighting points** must be taken from Group E.

Up to **360 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. 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
UEECD000 4	Apply material science to solving electrotechnology engineering problems	60
UEECD000 5	Apply physics to solving electrotechnology engineering problems	60

UEECD0007	Apply work health and safety regulations, codes and practices in the workplace	20
UEECD0010	Compile and produce an energy sector detailed report	60
UEECD0014	Develop design briefs for electrotechnology projects	40
UEECD0016	Document and apply measures to control WHS risks associated with electrotechnology work*	20
UEECD0019	Fabricate, assemble and dismantle utilities industry components*	40
UEECD0024	Implement and monitor energy sector WHS policies and procedures	20
UEECD0027	Participate in development and follow a personal competency development plan	20
UEECD0036	Provide engineering solutions for problems in complex multiple path circuits	60
UEECD0039	Provide solutions to basic engineering computational problems*	60
UEECD0043	Solve problems in direct current circuits*	80
UEECD0051	Use drawings, diagrams, schedules, standards, codes and specifications*	40
UEECS0003	Assemble, set up and test computing devices*	80
UEECS0033	Use engineering applications software on personal computers	40
UEEEC0011	Design and develop electronics/computer systems projects	40
UEEEC0060	Repairs basic electronic apparatus faults by replacement of components*	40
UEEEC0063	Solve fundamental electronic communications system problems*	40

UEEEC006 6	Troubleshoot amplifiers in an electronic apparatus*	80
UEEEC006 7	Troubleshoot basic amplifier circuits*	40
UEEEC006 9	Troubleshoot digital sub-systems*	80
UEEEC007 4	Troubleshoot resonance circuits in an electronic apparatus*	80
UEEEC007 5	Troubleshoot single phase input d.c power supplies*	40
UEERE001 3	Develop strategies to address environmental and sustainability issues in the energy sector	20
Group A: Imported and common elective units		Weighting Points
BSBINS50 1	Implement information and knowledge management systems	50
BSBLDR52 2	Manage people performance	70
BSBOPS20 3	Deliver a service to customers	20
BSBSTR50 1	Establish innovative work environments	50
BSBSTR50 2	Facilitate continuous improvement	60
BSBTWK5 02	Manage team effectiveness	60
ICTICT214	Operate application software packages	20
UEECD003 5	Provide basic instruction in the use of electrotechnology apparatus	20
UEECO000 2	Maintain documentation	20
UEECO001 5	Provide quotations for installation or service jobs	20

UEECO001 7	Source and purchase material/parts for installation or service jobs	20
Group B: Qualification elective units		Weighting Points
UEEAS000 1	Assemble electronic components*	40
UEEAS000 2	Conduct quality and functional tests on assembled electronic apparatus*	20
UEEAS000 3	Modify electronic sub-assemblies*	40
UEEAS000 4	Select electronic components for assembly*	20
UEEAS000 5	Set up and check electronic component assembly machines*	40
UEEAS000 6	Use lead-free soldering techniques*	40
UEECD000 8	Carry out preparatory energy sector work activities*	60
UEECD002 0	Fix and secure electrotechnology equipment*	20
UEECD002 1	Identify and select components, accessories and materials for energy sector work activities*	20
UEECD002 5	Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits*	40
UEECD002 8	Plan an integrated cabling installation system*	40
UEECD004 0	Solve basic problems electronic and digital equipment and circuits*	80
UEECS001 8	Develop web pages for engineering applications	40
UEECS002 2	Install and configure a client computer operating system and software	40

UEECS002 8	Select, install, configure and test multimedia components	40
UEECS002 9	Set up and configure basic local area network (LAN)*	80
UEECS003 2	Support computer hardware and software for engineering applications	120
UEEDV000 4	Install and connect data and voice communication equipment*	40
UEEDV000 5	Install and maintain cabling for multiple access to telecommunication services*	80
UEEDV000 6	Install and modify optical fibre performance data communication cabling*	40
UEEDV000 8	Install, modify and verify coaxial and structured communication copper cabling*	40
UEEDV000 9	Select and arrange data and voice equipment for local area networks*	40
UEEDV001 0	Select and arrange equipment for wireless communication networks*	40
UEEDV001 1	Set up and configure basic data communication systems*	40
UEEDV001 2	Set up and configure the wireless capabilities of communications and data storage devices	40
UEEDV001 4	Test, report and rectify faults in data and voice installations*	40
UEEEC000 3	Assemble and set up basic security systems*	80
UEEEC000 4	Assemble and set up fixed video/audio components and systems in buildings and premises*	120
UEEEC000 6	Carry out repairs of predictable faults in video and audio replay/recording apparatus*	120
UEEEC001 9	Develop software solutions for microcontroller-based systems*	60

UEEEC002 7	Enter instructions and test wired and wireless security systems*	40
UEEEC002 8	Fault find and repair complex power supplies*	40
UEEEC002 9	Fault find and repair electronic apparatus*	40
UEEEC003 8	Find and repair microwave amplifier section faults in electronic apparatus*	40
UEEEC004 6	Operate and maintain amateur radio communication stations*	40
UEEEC005 5	Repair basic computer equipment faults by replacement of modules/sub-assemblies*	40
UEEEC005 6	Repair predictable faults in audio components*	40
UEEEC005 7	Repair predictable faults in general electronic apparatus*	40
UEEEC005 8	Repair predictable faults in television receivers*	120
UEEEC005 9	Repair routine business equipment faults*	120
UEEEC006 2	Set up and test residential video/audio equipment*	40
UEEEC006 4	Solve oscillator problems*	40
UEEEC006 8	Troubleshoot communication systems*	80
UEEEC007 0	Troubleshoot faults in television receivers*	120
UEEEC007 2	Troubleshoot microcontroller-based hardware systems	40
UEEEC007 7	Verify functionality and compliance of custom electronic installations*	40

UEEIC000 2	Assemble, enter and verify operating instructions in microprocessor equipped devices*	20
UEEIC001 3	Develop, enter and verify discrete control programs for programmable controllers*	60
UEERE001 5	Implement and monitor energy sector environmental and sustainable policies and procedures	20
Group C: Qualification elective units		Weighting Points
ICTNWK3 09	Configure and administer network operating systems	70
ICTNWK4 26	Install and configure client-server applications and services	60
ICTTEN42 0	Design, install and configure an internetwork	100
UEECO000 1	Estimate electrotechnology projects	40
UEECO001 3	Prepare specifications for the supply of materials and equipment for electrotechnology projects	40
UEECS001 4	Develop computer network services*	120
UEECS002 1	Install and administer UNIX/LINUX-based networked computers	80
UEECS002 3	Install and configure network systems for internetworking*	120
UEECS002 4	Integrate multiple computer operating systems on a client server local area network	80
UEECS003 0	Set up, configure and test biometric devices	40
UEEEC001 2	Design custom electronic equipment installations*	120
UEEEC001 5	Develop basic plans for integrating security systems*	40

UEEEC002 2	Diagnose and rectify faults in camera circuits and equipment*	60
UEEEC002 4	Diagnose and rectify faults in electronic display circuits*	60
UEEEC002 5	Diagnose and rectify faults in recording and replay equipment	60
UEEEC003 7	Fault find and repair telecommunication apparatus and systems*	60
UEEIC001 2	Develop structured programs to control external devices*	40
UEEIC001 4	Develop, enter and verify programs in supervisory control and data acquisition systems*	60
UEEIC001 5	Develop, enter and verify word and analogue control programs for programmable logic controllers*	60
Group D: Qualification elective units		Weighting Points
ICTICT518	Research and review hardware technology options for organisations	20
ICTNWK3 07	Provide network systems administration	60
ICTPRG44 4	Analyse software requirements	60
ICTPRG53 4	Deploy applications to production environments	40
ICTPRG54 9	Apply intermediate object-oriented language skills	60
ICTTEN40 9	Commission an electronic system	50
ICTWEB44 7	Build basic website using development software and ICT tools	20
UEECD000 1	Analyse materials for suitability in electrical equipment*	80

UEECD000 2	Analyse static and dynamic parameters of electrical equipment	80
UEECD003 7	Provide engineering solutions for uses of materials and thermodynamic effects	80
UEECD005 3	Write specifications for computer systems engineering projects	40
UEECO001 4	Prepare tender submissions for electrotechnology projects*	60
UEECS000 1	Administer computer networks	80
UEECS000 2	Analyse and implement biometric measuring techniques and applications	120
UEECS000 4	Commission industrial computer systems*	20
UEECS001 3	Develop and validate biometric equipment/systems installation	120
UEECS001 9	Develop, implement and test object-oriented code*	140
UEECS002 5	Modify/redesign industrial computer systems*	20
UEECS003 1	Set up, create and implement content for a web server*	120
UEEEC000 1	Analyse the performance of wireless-based electronic communication systems*	40
UEEEC001 0	Design and develop advanced digital systems	40
UEEEC001 3	Design electronic printed circuit boards*	40
UEEEC001 6	Develop engineering solutions to RF amplifier problems*	40
UEEEC001 8	Develop engineering solutions to audio electronic problems*	60

UEEEC005 4	Provide gate array solutions for complex electronics systems*	60
UEEIC000 5	Configure and maintain industrial control system networks*	60
UEEIC001 0	Develop and test code for microcontroller devices	60
Group E: Qualification elective units		Weighting Points
ICTNWK4 24	Install and operate small enterprise branch networks	60
ICTNWK5 61	Design enterprise wireless local area networks	30
ICTNWK6 24	Configure advanced internetwork routing solutions	120
ICTNWK6 25	Plan and configure advanced internetwork switching solutions	120
ICTPRG44 0	Apply introductory programming skills in different languages	60
ICTPRG53 4	Deploy applications to production environments	40
ICTTEN42 0	Design, install and configure an internetwork	100
MEM23401 0	Design microcontroller applications	40
UEECD001 5	Develop engineering solutions to photonic system problems*	80
UEECD004 9	Use advanced computational processes to provide solutions to energy sector engineering problems*	80
UEECS000 5	Design and implement advanced routing for internetworking systems	100
UEECS000 6	Design and implement multi-layer switching for internetworking systems	100

UEECS000 7	Design and implement network systems for internetworking	120
UEECS000 8	Design and implement remote access for internetworking systems	100
UEECS000 9	Design and implement security for internetworking systems	100
UEECS001 0	Design and implement wireless LANs/WANs for internetworking systems	100
UEECS001 1	Design and manage enterprise computer networks	80
UEECS001 2	Design embedded controller control systems	80
UEECS001 7	Develop industrial control programs for microcomputer equipped devices	60
UEECS002 7	Provide programming solution for computer systems engineering problems	60
UEEEC000 5	Assess electronic apparatus compliance	60
UEEEC001 4	Design signal-conditioning sub-systems	80
UEEEC004 5	Modify digital signal processing (DSP) based sub-systems	80
UEEEC004 7	Plan large electronic projects	60
UEEIC000 7	Design and use advanced programming tools, PC networks and HMI Interfacing	120

Pre-requisite Requirements

Unit of competency	Prerequisite requirement
UEEAS0003 Modify electronic sub-assemblies	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

	UEEAS0001 Assemble electronic components
UEECD0019 Fabricate, assemble and dismantle utilities industry components	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0024 Diagnose and rectify faults in electronic display circuits	UEEEC0070 Troubleshoot faults in television receivers
UEEEC0063 Solve fundamental electronic communications system problems	UEEEC0066 Troubleshoot amplifiers in an electronic apparatus
UEEEC0022 Diagnose and rectify faults in camera circuits and equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEC0029 Fault find and repair electronic apparatus
UEECS0023 Install and configure network systems for internetworking	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECS0025 Modify/redesign industrial computer systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0013 Design electronic printed circuit boards	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0021 Identify and select components, accessories and materials for energy sector work activities	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

	UEECD0009 Carry out routine work activities in an energy sector environment
UEECD0020 Fix and secure electrotechnology equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEDV0011 Set up and configure basic data communication systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECS0003 Assemble, set up and test computing devices
UEECS0019 Develop, implement and test object-oriented code	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0060 Repairs basic electronic apparatus faults by replacement of components	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components
UEEEC0016 Develop engineering solutions to RF amplifier problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0077 Verify functionality and compliance of custom electronic installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEC0004 Assemble and set up fixed video/audio components and systems in buildings and premises UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

	<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>
UEECS0031 Set up, create and implement content for a web server	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0029 Fault find and repair electronic apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEIC0015 Develop, enter and verify word and analogue control programs for programmable logic controllers	<p>UEEIC0013 Develop, enter and verify discrete control programs for programmable controllers</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>
UEEDV0004 Install and connect data and voice communication equipment	<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>UEEDV0006 Install and modify optical fibre performance data communication cabling</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEECD0008 Carry out preparatory energy sector work activities	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0028 Fault find and repair complex power supplies	<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>UEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p>
UEECD0001 Analyse materials for suitability in electrical equipment	UEECD0002 Analyse static and dynamic parameters of electrical equipment
UEEEC0056 Repair predictable faults in audio components	<p>UEEEC0075 Troubleshoot single phase input d.c power supplies</p> <p>UEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p>

	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEC0028 Fault find and repair complex power supplies</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEC0069 Troubleshoot digital sub-systems</p>
<p>UEEEC0012 Design custom electronic equipment installations</p>	<p>UEEEC0077 Verify functionality and compliance of custom electronic installations</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEC0004 Assemble and set up fixed video/audio components and systems in buildings and premises</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>UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits</p>
<p>UEECD0039 Provide solutions to basic engineering computational problems</p>	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>

UEEAS0002 Conduct quality and functional tests on assembled electronic apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0015 Develop engineering solutions to photonic system problems	UEEEC0065 Solve problems in basic electronic circuits UEECD0043 Solve problems in direct current circuits UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0046 Solve problems in single path circuits UEECD0044 Solve problems in multiple path circuits
UEECS0003 Assemble, set up and test computing devices	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0003 Assemble and set up basic security systems	UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment
UEEEC0019 Develop software solutions for microcontroller-based systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEEEC0067 Troubleshoot basic amplifier circuits	UEEEC0060 Repairs basic electronic apparatus faults by replacement of components
UEEEC0037 Fault find and repair telecommunication apparatus and systems	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEC0065 Solve problems in basic electronic circuits</p> <p>UEEEC0075 Troubleshoot single phase input d.c power supplies</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEC0019 Develop software solutions for microcontroller-based systems</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>UEEEC0028 Fault find and repair complex power supplies</p> <p>UEEEC0069 Troubleshoot digital sub-systems</p> <p>UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p>

	UEECD0044 Solve problems in multiple path circuits
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>
UEEDV0014 Test, report and rectify faults in data and voice installations	<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>UEEDV0006 Install and modify optical fibre performance data communication cabling</p>

	<p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEIC0012 Develop structured programs to control external devices	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>
UEEEC0004 Assemble and set up fixed video/audio components and systems in buildings and premises	<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>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>
UEEEC0046 Operate and maintain amateur radio communication stations	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>
UEEEC0018 Develop engineering solutions to audio electronic problems	<p>UEEEC0067 Troubleshoot basic amplifier circuits</p>

UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus	<p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEC0066 Troubleshoot amplifiers in an electronic apparatus</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>UEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEAS0001 Assemble electronic components	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEAS0005 Set up and check electronic component assembly machines	<p>UEEAS0004 Select electronic components for assembly</p> <p>UEEAS0001 Assemble electronic components</p>
UEEEC0001 Analyse the performance of wireless-based electronic communication systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0057 Repair predictable faults in general electronic apparatus	UEEEC0075 Troubleshoot single phase input d.c power supplies

	<p>UEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEC0028 Fault find and repair complex power supplies</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEC0069 Troubleshoot digital sub-systems</p>
UEECO0014 Prepare tender submissions for electrotechnology projects	UEECO0001 Estimate electrotechnology projects
UEECS0014 Develop computer network services	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0066 Troubleshoot amplifiers in an electronic apparatus	<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>UEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEECD0044 Solve problems in multiple path circuits</p>

UEEIC0013 Develop, enter and verify discrete control programs for programmable controllers	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEDV0006 Install and modify optical fibre performance data communication cabling	<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>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>
UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus	<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>UEECD0044 Solve problems in multiple path circuits</p>
UEEEC0064 Solve oscillator problems	<p>UEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p>

UEEIC0005 Configure and maintain industrial control system networks	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0058 Repair predictable faults in television receivers	<p>UEEEC0075 Troubleshoot single phase input d.c power supplies</p> <p>UEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEC0028 Fault find and repair complex power supplies</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEC0069 Troubleshoot digital sub-systems</p>
UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEAS0006 Use lead-free soldering techniques	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0070 Troubleshoot faults in television receivers	UEEEC0058 Repair predictable faults in television receivers
UEEIC0002 Assemble, enter and verify operating instructions in microprocessor equipped devices	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEEEC0055 Repair basic computer equipment faults by replacement of modules/sub-assemblies	<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>UEECD0040 Solve basic problems electronic and digital equipment and circuits</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling	<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>

	UEECD0044 Solve problems in multiple path circuits
UEEEC0068 Troubleshoot communication systems	<p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p>
UEEEC0059 Repair routine business equipment faults	<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>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p>
UEEEC0027 Enter instructions and test wired and wireless security systems	<p>UEEEC0003 Assemble and set up basic security 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>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p>

UEEEC0069 Troubleshoot digital subsystems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEC0060 Repairs basic electronic apparatus faults by replacement of components
UEEEC0062 Set up and test residential video/audio equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEC0040 Solve basic problems electronic and digital equipment and circuits	UEECD0043 Solve problems in direct current circuits UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0046 Solve problems in single path circuits UEECD0044 Solve problems in multiple path circuits
UEECD0043 Solve problems in direct current circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECS0004 Commission industrial computer systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEAS0004 Select electronic components for assembly	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEDV0009 Select and arrange data and voice equipment for local area networks	UEECD0043 Solve problems in direct current circuits

	<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>UEEDV0006 Install and modify optical fibre performance data communication cabling</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits	<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>UEECD0020 Fix and secure electrotechnology equipment</p>
UEEIC0014 Develop, enter and verify programs in supervisory control and data acquisition systems	UEEIC0013 Develop, enter and verify discrete control programs for programmable controllers

	<p>UEEIC0015 Develop, enter and verify word and analogue control programs for programmable logic controllers</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>
<p>UEEEC0075 Troubleshoot single phase input d.c power supplies</p>	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEC0065 Solve problems in basic electronic circuits</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>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>

UEEEC0015 Develop basic plans for integrating security systems	<p>UEEEC0048 Program and commission commercial access control security systems</p> <p>UEEEC0003 Assemble and set up basic security 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>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEC0052 Program and test large security systems</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEEEC0049 Program and commission commercial security closed-circuit television systems</p> <p>UEEEC0050 Program and commission commercial security systems</p>
UEECS0029 Set up and configure basic local area network (LAN)	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECS0003 Assemble, set up and test computing devices</p>
UEEEC0006 Carry out repairs of predictable faults in video and audio replay/recording apparatus	<p>UEEEC0075 Troubleshoot single phase input d.c power supplies</p> <p>UEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>

	<p>UEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEC0028 Fault find and repair complex power supplies</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEC0069 Troubleshoot digital sub-systems</p>
UEEDV0010 Select and arrange equipment for wireless communication networks	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0054 Provide gate array solutions for complex electronics systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
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>
UEECD0049 Use advanced computational processes to provide solutions to energy sector engineering problems	<p>UEECD0039 Provide solutions to basic engineering computational problems</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>

Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
UEE61720 Advanced Diploma of Engineering Technology - Electronics	UEE61711 Advanced Diploma of Engineering Technology - Electronics		Equivalent

Links

Companion volumes, including implementation guides, are found in TGA -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>