



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3	Updated superseded imported elective units.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 • Updated superseded imported elective units • The following units added to electives (see UEE Release 5.0 Companion Volume Implementation Guide for mapping of deleted UEE units to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
UEECD0004	Apply material science to solving electrotechnology engineering problems	60
UEECD0005	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
UEEEEC0011	Design and develop electronics/computer systems projects	40
UEEEEC0060	Repairs basic electronic apparatus faults by replacement of components*	40
UEEEEC0063	Solve fundamental electronic communications system problems*	40

UEEEEC0066	Troubleshoot amplifiers in an electronic apparatus*	80
UEEEEC0067	Troubleshoot basic amplifier circuits*	40
UEEEEC0069	Troubleshoot digital sub-systems*	80
UEEEEC0074	Troubleshoot resonance circuits in an electronic apparatus*	80
UEEEEC0075	Troubleshoot single phase input d.c power supplies*	40
UEERE0013	Develop strategies to address environmental and sustainability issues in the energy sector	20
Group A: Imported and common elective units		Weighting Points
BSBINS501	Implement information and knowledge management systems	50
BSBLDR522	Manage people performance	70
BSBOPS203	Deliver a service to customers	20
BSBSTR501	Establish innovative work environments	50
BSBSTR502	Facilitate continuous improvement	60
BSBTWK502	Manage team effectiveness	60
ICTICT214	Operate application software packages	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

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

UEECS0028	Select, install, configure and test multimedia components	40
UEECS0029	Set up and configure basic local area network (LAN)*	80
UEECS0032	Support computer hardware and software for engineering applications	120
UEEDV0004	Install and connect data and voice communication equipment*	40
UEEDV0005	Install and maintain cabling for multiple access to telecommunication services*	80
UEEDV0006	Install and modify optical fibre performance data communication cabling*	40
UEEDV0008	Install, modify and verify coaxial and structured communication copper cabling*	40
UEEDV0009	Select and arrange data and voice equipment for local area networks*	40
UEEDV0010	Select and arrange equipment for wireless communication networks*	40
UEEDV0011	Set up and configure basic data communication systems*	40
UEEDV0012	Set up and configure the wireless capabilities of communications and data storage devices	40
UEEDV0014	Test, report and rectify faults in data and voice installations*	40
UEEEEC0003	Assemble and set up basic security systems*	80
UEEEEC0004	Assemble and set up fixed video/audio components and systems in buildings and premises*	120
UEEEEC0006	Carry out repairs of predictable faults in video and audio replay/recording apparatus*	120
UEEEEC0019	Develop software solutions for microcontroller-based systems*	60

UEEEEC002 7	Enter instructions and test wired and wireless security systems*	40
UEEEEC002 8	Fault find and repair complex power supplies*	40
UEEEEC002 9	Fault find and repair electronic apparatus*	40
UEEEEC003 8	Find and repair microwave amplifier section faults in electronic apparatus*	40
UEEEEC004 6	Operate and maintain amateur radio communication stations*	40
UEEEEC005 5	Repair basic computer equipment faults by replacement of modules/sub-assemblies*	40
UEEEEC005 6	Repair predictable faults in audio components*	40
UEEEEC005 7	Repair predictable faults in general electronic apparatus*	40
UEEEEC005 8	Repair predictable faults in television receivers*	120
UEEEEC005 9	Repair routine business equipment faults*	120
UEEEEC006 2	Set up and test residential video/audio equipment*	40
UEEEEC006 4	Solve oscillator problems*	40
UEEEEC006 8	Troubleshoot communication systems*	80
UEEEEC007 0	Troubleshoot faults in television receivers*	120
UEEEEC007 2	Troubleshoot microcontroller-based hardware systems	40
UEEEEC007 7	Verify functionality and compliance of custom electronic installations*	40

UEEIC0002	Assemble, enter and verify operating instructions in microprocessor equipped devices*	20
UEEIC0013	Develop, enter and verify discrete control programs for programmable controllers*	60
UEERE0015	Implement and monitor energy sector environmental and sustainable policies and procedures	20
Group C: Qualification elective units		Weighting Points
ICTNWK309	Configure and administer network operating systems	70
ICTNWK426	Install and configure client-server applications and services	60
ICTTEN420	Design, install and configure an internetwork	100
UEECO0001	Estimate electrotechnology projects	40
UEECO0013	Prepare specifications for the supply of materials and equipment for electrotechnology projects	40
UEECS0014	Develop computer network services*	120
UEECS0021	Install and administer UNIX/LINUX-based networked computers	80
UEECS0023	Install and configure network systems for internetworking*	120
UEECS0024	Integrate multiple computer operating systems on a client server local area network	80
UEECS0030	Set up, configure and test biometric devices	40
UEEEEC0012	Design custom electronic equipment installations*	120
UEEEEC0015	Develop basic plans for integrating security systems*	40

UEEEEC002 2	Diagnose and rectify faults in camera circuits and equipment*	60
UEEEEC002 4	Diagnose and rectify faults in electronic display circuits*	60
UEEEEC002 5	Diagnose and rectify faults in recording and replay equipment	60
UEEEEC003 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

UEECD0002	Analyse static and dynamic parameters of electrical equipment	80
UEECD0037	Provide engineering solutions for uses of materials and thermodynamic effects	80
UEECD0053	Write specifications for computer systems engineering projects	40
UEECO0014	Prepare tender submissions for electrotechnology projects*	60
UEECS0001	Administer computer networks	80
UEECS0002	Analyse and implement biometric measuring techniques and applications	120
UEECS0004	Commission industrial computer systems*	20
UEECS0013	Develop and validate biometric equipment/systems installation	120
UEECS0019	Develop, implement and test object-oriented code*	140
UEECS0025	Modify/redesign industrial computer systems*	20
UEECS0031	Set up, create and implement content for a web server*	120
UEEEEC0001	Analyse the performance of wireless-based electronic communication systems*	40
UEEEEC0010	Design and develop advanced digital systems	40
UEEEEC0013	Design electronic printed circuit boards*	40
UEEEEC0016	Develop engineering solutions to RF amplifier problems*	40
UEEEEC0018	Develop engineering solutions to audio electronic problems*	60

UEEEEC0054	Provide gate array solutions for complex electronics systems*	60
UEEIC0005	Configure and maintain industrial control system networks*	60
UEEIC0010	Develop and test code for microcontroller devices	60
Group E: Qualification elective units		Weighting Points
ICTNWK424	Install and operate small enterprise branch networks	60
ICTNWK561	Design enterprise wireless local area networks	30
ICTNWK624	Configure advanced internetwork routing solutions	120
ICTNWK625	Plan and configure advanced internetwork switching solutions	120
ICTPRG440	Apply introductory programming skills in different languages	60
ICTPRG534	Deploy applications to production environments	40
ICTTEN420	Design, install and configure an internetwork	100
MEM234010	Design microcontroller applications	40
UEECD0015	Develop engineering solutions to photonic system problems*	80
UEECD0049	Use advanced computational processes to provide solutions to energy sector engineering problems*	80
UEECS0005	Design and implement advanced routing for internetworking systems	100
UEECS0006	Design and implement multi-layer switching for internetworking systems	100

UEECS0007	Design and implement network systems for internetworking	120
UEECS0008	Design and implement remote access for internetworking systems	100
UEECS0009	Design and implement security for internetworking systems	100
UEECS0010	Design and implement wireless LANs/WANs for internetworking systems	100
UEECS0011	Design and manage enterprise computer networks	80
UEECS0012	Design embedded controller control systems	80
UEECS0017	Develop industrial control programs for microcomputer equipped devices	60
UEECS0027	Provide programming solution for computer systems engineering problems	60
UEEEEC0005	Assess electronic apparatus compliance	60
UEEEEC0014	Design signal-conditioning sub-systems	80
UEEEEC0045	Modify digital signal processing (DSP) based sub-systems	80
UEEEEC0047	Plan large electronic projects	60
UEEIC0007	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
UEEEEC0024 Diagnose and rectify faults in electronic display circuits	UEEEEC0070 Troubleshoot faults in television receivers
UEEEEC0063 Solve fundamental electronic communications system problems	UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus
UEEEEC0022 Diagnose and rectify faults in camera circuits and equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEEC0029 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
UEEEEC0013 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
UEEEEC0029 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>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEEC0028 Fault find and repair complex power supplies</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEEC0069 Troubleshoot digital sub-systems</p>
UEEEEC0012 Design custom electronic equipment installations	<p>UEEEEC0077 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>UEEEEC0004 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>
UEECD0039 Provide solutions to basic engineering computational problems	<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	<p>UEEECD0065 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>UEECD0044 Solve problems in multiple path circuits</p>
UEECS0003 Assemble, set up and test computing devices	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEECD0003 Assemble and set up basic security systems	<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>
UEEECD0019 Develop software solutions for microcontroller-based systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEEEEC0067 Troubleshoot basic amplifier circuits	UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components
UEEEEC0037 Fault find and repair telecommunication apparatus and systems	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEEC0065 Solve problems in basic electronic circuits</p> <p>UEEEEC0075 Troubleshoot single phase input d.c power supplies</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEEC0019 Develop software solutions for microcontroller-based systems</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEEC0028 Fault find and repair complex power supplies</p> <p>UEEEEC0069 Troubleshoot digital sub-systems</p> <p>UEEEEC0074 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	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0004 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>
UEEEEC0046 Operate and maintain amateur radio communication stations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0018 Develop engineering solutions to audio electronic problems	UEEEEC0067 Troubleshoot basic amplifier circuits

<p>UEEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus</p>	<p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEEC0066 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>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
<p>UEEAS0001 Assemble electronic components</p>	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>
<p>UEEAS0005 Set up and check electronic component assembly machines</p>	<p>UEEAS0004 Select electronic components for assembly</p> <p>UEEAS0001 Assemble electronic components</p>
<p>UEEEEC0001 Analyse the performance of wireless-based electronic communication systems</p>	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>
<p>UEEEEC0057 Repair predictable faults in general electronic apparatus</p>	<p>UEEEEC0075 Troubleshoot single phase input d.c power supplies</p>

	<p>UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEED0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEEC0028 Fault find and repair complex power supplies</p> <p>UEEED0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEEC0069 Troubleshoot digital sub-systems</p>
UEECO0014 Prepare tender submissions for electrotechnology projects	UEECO0001 Estimate electrotechnology projects
UEECS0014 Develop computer network services	UEEED0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus	<p>UEEED0043 Solve problems in direct current circuits</p> <p>UEEED0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEED0046 Solve problems in single path circuits</p> <p>UEEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEEED0044 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>
UEEEEC0074 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>
UEEEEC0064 Solve oscillator problems	<p>UEEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEEEEC0074 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
UEEEEC0058 Repair predictable faults in television receivers	<p>UEEEEC0075 Troubleshoot single phase input d.c power supplies</p> <p>UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEEC0028 Fault find and repair complex power supplies</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEEC0069 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
UEEEEC0070 Troubleshoot faults in television receivers	UEEEEC0058 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

<p>UEEEEC0055 Repair basic computer equipment faults by replacement of modules/sub-assemblies</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>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>
<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>

	UEECD0044 Solve problems in multiple path circuits
UEEEEC0068 Troubleshoot communication systems	<p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p>
UEEEEC0059 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>
UEEEEC0027 Enter instructions and test wired and wireless security systems	<p>UEEEEC0003 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>

UEEEEC0069 Troubleshoot digital sub-systems	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p>
UEEEEC0062 Set up and test residential video/audio equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0040 Solve basic problems electronic and digital equipment and circuits	<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>
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>
UEEEEC0075 Troubleshoot single phase input d.c power supplies	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEEC0065 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>UEEEEC0060 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>UEEEEC0074 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>UEEEEC0015 Develop basic plans for integrating security systems</p>	<p>UEEEEC0048 Program and commission commercial access control security systems</p> <p>UEEEEC0003 Assemble and set up basic security systems</p> <p>UEEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEEC0052 Program and test large security systems</p> <p>UEEECD0020 Fix and secure electrotechnology equipment</p> <p>UEEEEC0049 Program and commission commercial security closed-circuit television systems</p> <p>UEEEEC0050 Program and commission commercial security systems</p>
<p>UEECS0029 Set up and configure basic local area network (LAN)</p>	<p>UEEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECS0003 Assemble, set up and test computing devices</p>
<p>UEEEEC0006 Carry out repairs of predictable faults in video and audio replay/recording apparatus</p>	<p>UEEEEC0075 Troubleshoot single phase input d.c power supplies</p> <p>UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>

	<p>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEEC0028 Fault find and repair complex power supplies</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEEEC0069 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
UEEEEC0054 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>