



Australian Government

**UEE60220 Advanced Diploma of
Electronics and Communications
Engineering**

UEE60220 Advanced Diploma of Electronics and Communications Engineering

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3	Updated superseded imported elective units.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 • Updated superseded imported elective units • The following units added to electives (see UEE Release 5.0 Companion Volume Implementation Guide for mapping of deleted UEE units to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 ○ ICTNWK426 ○ ICTPRG440 ○ ICTPRG444 ○ ICTPRG534 ○ ICTPRG549 ○ 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 communication equipment and systems, manage risk, estimate and manage projects 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:

280 core weighting points listed below; plus

1880 general elective weighting points from the general elective units listed below.

Choose a total of **1880 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 900 weighting points** must be taken from Group B; and between **0 and 280 weighting points** must be taken from Group C; and between **0 and 260 weighting points** must be taken from Group D; and between **520 and 1320 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 7	Apply work health and safety regulations, codes and practices in the workplace	20
UEECD001 2	Contribute to risk management in electrotechnology systems	20
UEECD001 4	Develop design briefs for electrotechnology projects	40
UEECD001 6	Document and apply measures to control WHS risks associated with electrotechnology work*	20

UEECD002 4	Implement and monitor energy sector WHS policies and procedures	20
UEECD002 7	Participate in development and follow a personal competency development plan	20
UEEEC000 7	Commission electronics and communications systems	20
UEEEC001 1	Design and develop electronics/computer systems projects	40
UEEEC004 3	Manage computer systems/electronics projects	40
UEEEC004 4	Modify - redesign electronics and communications systems*	20
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
BSBSTR50 1	Establish innovative work environments	50
BSBLDR52 2	Manage people performance	70
BSBSTR50 2	Facilitate continuous improvement	60
BSBTWK5 02	Manage team effectiveness	60
ICTTEN31 2	Install telecommunications network equipment	40
MSS40200 3	Apply competitive systems and practices	20
MSS40202 2	Apply quick changeover procedures	20

MSS40202 3	Apply Just in Time procedures	20
MSS40204 2	Apply 5S procedures	20
MSS40208 4	Undertake root cause analysis	20
MSS40208 5	Contribute to the application of a proactive maintenance strategy	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
UEECD001 9	Fabricate, assemble and dismantle utilities industry components*	40
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
UEECD004 3	Solve problems in direct current circuits*	80
UEECD005 1	Use drawings, diagrams, schedules, standards, codes and specifications*	40
UEECS000 3	Assemble, set up and test computing devices*	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 0	Set up, configure and test biometric devices	40
UEECS003 2	Support computer hardware and software for engineering applications	120
UEECS003 3	Use engineering applications software on personal computers	40
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

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
UEEDV0013	Solve problems in voice and data communications circuits*	40
UEEDV0014	Test, report and rectify faults in data and voice installations*	40
UEEEC0002	Assemble and install reception antennae and signal distribution equipment*	60
UEEEC0003	Assemble and set up basic security systems*	80
UEEEC0004	Assemble and set up fixed video/audio components and systems in buildings and premises*	120
UEEEC0006	Carry out repairs of predictable faults in video and audio replay/recording apparatus*	120
UEEEC0008	Commission large fire protection systems*	40
UEEEC0019	Develop software solutions for microcontroller-based systems*	60
UEEEC0026	Enter and verify programs for fire protection systems*	40
UEEEC0027	Enter instructions and test wired and wireless security systems*	40
UEEEC0028	Fault find and repair complex power supplies*	40
UEEEC0029	Fault find and repair electronic apparatus*	40

UEEEC003 2	Fault find and repair high-volume office equipment*	120
UEEEC003 8	Find and repair microwave amplifier section faults in electronic apparatus*	40
UEEEC003 9	Install and test microwave antennae and waveguides*	60
UEEEC004 0	Install commercial video/audio system components*	120
UEEEC004 1	Install fire detection and warning system apparatus*	40
UEEEC004 2	Install large security systems*	100
UEEEC004 6	Operate and maintain amateur radio communication stations*	40
UEEEC004 8	Program and commission commercial access control security systems*	60
UEEEC004 9	Program and commission commercial security closed-circuit television systems*	60
UEEEC005 0	Program and commission commercial security systems*	60
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 0	Repairs basic electronic apparatus faults by replacement of components*	40

UEEEC006 1	Set up and adjust commercial radio frequency (RF) transmission and reception systems*	60
UEEEC006 2	Set up and test residential video/audio equipment*	40
UEEEC006 3	Solve fundamental electronic communications system problems*	40
UEEEC006 4	Solve oscillator problems*	40
UEEEC006 5	Solve problems in basic electronic circuits*	100
UEEEC006 6	Troubleshoot amplifiers in an electronic apparatus*	80
UEEEC006 7	Troubleshoot basic amplifier circuits*	40
UEEEC006 8	Troubleshoot communication systems*	80
UEEEC006 9	Troubleshoot digital sub-systems*	80
UEEEC007 0	Troubleshoot faults in television receivers*	120
UEEEC007 1	Troubleshoot fire protection systems*	40
UEEEC007 2	Troubleshoot microcontroller-based hardware systems	40
UEEEC007 3	Troubleshoot professional audio reproduction components*	120
UEEEC007 4	Troubleshoot resonance circuits in an electronic apparatus*	80
UEEEC007 5	Troubleshoot single phase input d.c power supplies*	40
UEEEC007 6	Verify compliance and functionality of fire protection system installations*	60

UEEEC007 7	Verify functionality and compliance of custom electronic installations*	40
UEEIC000 2	Assemble, enter and verify operating instructions in microprocessor equipped devices*	20
UEEIC000 4	Calibrate, adjust and test measuring instruments*	40
UEEIC001 3	Develop, enter and verify discrete control programs for programmable controllers*	60
UEEIC004 7	Use instrumentation drawings, specifications, standards and equipment manuals*	40
UEERL000 1	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply*	20
UEERL000 2	Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.*	20
Group C: Qualification elective units		Weighting Points
ICTPRG44 4	Analyse software requirements	60
ICTWEB44 7	Build basic website using development software and ICT tools	20
UEECD001 0	Compile and produce an energy sector detailed report	60
UEECD001 3	Develop and implement energy sector maintenance programs	60
UEECD001 8	Establish, maintain and evaluate energy sector WHS/OHS systems	60
UEECD004 7	Supervise and coordinate energy sector work activities	40
UEECO000 1	Estimate electrotechnology projects	40
UEECO001 3	Prepare specifications for the supply of materials and equipment for electrotechnology projects	40

UEECS000 2	Analyse and implement biometric measuring techniques and applications	120
UEECS002 0	Evaluate and modify object-oriented code programs	40
UEECS003 1	Set up, create and implement content for a web server*	120
UEEEC000 9	Commission satellite and microwave communication systems*	40
UEEEC001 2	Design custom electronic equipment installations*	120
UEEEC002 2	Diagnose and rectify faults in camera circuits and equipment*	60
UEEEC002 3	Diagnose and rectify faults in digital transmission circuits and systems*	80
UEEEC002 4	Diagnose and rectify faults in electronic display circuits*	60
UEEEC002 5	Diagnose and rectify faults in recording and replay equipment	60
UEEEC003 0	Fault find and repair electronic medical equipment*	120
UEEEC003 1	Fault find and repair global positioning systems*	60
UEEEC003 3	Fault find and repair navigation systems*	60
UEEEC003 4	Fault find and repair radar apparatus and systems*	120
UEEEC003 5	Fault find and repair satellite-based surveillance and observation systems*	60
UEEEC003 6	Fault find and repair sonar apparatus and systems*	120
UEEEC003 7	Fault find and repair telecommunication apparatus and systems*	60

UEEEC005 1	Program and commission commercial video/audio systems*	40
UEEEC005 2	Program and test large security systems*	120
UEEIC000 5	Configure and maintain industrial control system networks*	60
UEEIC001 2	Develop structured programs to control external devices*	40
UEEIC004 2	Solve problems in single phase electronic power control circuits*	60
UEERE001 5	Implement and monitor energy sector environmental and sustainable policies and procedures	20
Group D: Qualification elective units		Weighting Points
ICTICT518	Research and review hardware technology options for organisations	20
ICTNWK4 26	Install and configure client-server applications and services	60
ICTPRG44 0	Apply introductory programming skills in different languages	60
ICTPRG53 4	Deploy applications to production environments	40
ICTPRG54 9	Apply intermediate object-oriented language skills	60
UEECD003 6	Provide engineering solutions for problems in complex multiple path circuits	60
UEECD003 7	Provide engineering solutions for uses of materials and thermodynamic effects	80
UEECD003 9	Provide solutions to basic engineering computational problems*	60
UEECD005 4	Write specifications for electronics and communications engineering projects	40

UEECO001 4	Prepare tender submissions for electrotechnology projects*	60
UEECS001 3	Develop and validate biometric equipment/systems installation	120
UEECS001 6	Develop energy sector directory services*	80
UEECS001 7	Develop industrial control programs for microcomputer equipped devices	60
UEECS001 9	Develop, implement and test object-oriented code*	140
UEECS002 7	Provide programming solution for computer systems engineering problems	60
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 5	Develop basic plans for integrating security systems*	40
UEEEC001 6	Develop engineering solutions to RF amplifier problems*	40
UEEEC001 7	Develop engineering solutions to analogue electronic problems*	80
UEEEC001 8	Develop engineering solutions to audio electronic problems*	60
UEEEC002 0	Develop solutions for air surveillance apparatus and systems*	120
UEEEC002 1	Diagnose and rectify faults in air navigation circuits and systems*	120
UEEEC005 3	Provide engineering solutions to air traffic control system problems*	40

UEEIC000 6	Design and configure human-machine interface (HMI) networks	60
UEEIC001 0	Develop and test code for microcontroller devices	60
Group E: Qualification elective units		Weighting Points
MEM23401 0	Design microcontroller applications	40
UEECD000 1	Analyse materials for suitability in electrical equipment*	80
UEECD000 2	Analyse static and dynamic parameters of electrical equipment	80
UEECD000 4	Apply material science to solving electrotechnology engineering problems	60
UEECD000 5	Apply physics to solving electrotechnology engineering problems	60
UEECD001 5	Develop engineering solutions to photonic system problems*	80
UEECD002 6	Manage risk in electrotechnology activities	60
UEECD004 1	Solve electrotechnical engineering problems	60
UEECD004 9	Use advanced computational processes to provide solutions to energy sector engineering problems*	80
UEECO000 3	Manage contract variations	40
UEECS001 2	Design embedded controller control systems	80
UEECS001 5	Develop energy sector computer network applications infrastructure	80
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
UEEEC005 4	Provide gate array solutions for complex electronics systems*	60
UEEIC000 7	Design and use advanced programming tools, PC networks and HMI Interfacing	120
UEEIC000 8	Design electronic control systems*	60
UEEIC003 2	Set up electronically controlled robotically operated complex systems*	80

Pre-requisite Requirements

Unit of competency	Prerequisite requirement
UEECS0016 Develop energy sector directory services	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0008 Carry out preparatory energy sector work activities	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEIC0002 Assemble, enter and verify operating instructions in microprocessor equipped devices	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

	<p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p>
<p>UEEDV0006 Install and modify optical fibre performance data communication cabling</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>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>UEEEC0027 Enter instructions and test wired and wireless 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>UEECD0020 Fix and secure electrotechnology equipment</p>

UEEAS0002 Conduct quality and functional tests on assembled electronic apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0008 Commission large fire protection systems	<p>UEEEC0026 Enter and verify programs for fire protection systems</p> <p>UEEEC0076 Verify compliance and functionality of fire protection system installations</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> <p>UEEEC0041 Install fire detection and warning system apparatus</p>
UEEAS0003 Modify electronic sub-assemblies	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEAS0001 Assemble electronic components</p>
UEEEC0069 Troubleshoot digital subsystems	<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>

UEEEC0026 Enter and verify programs for fire protection systems	<p>UEEEC0076 Verify compliance and functionality of fire protection system installations</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> <p>UEEEC0041 Install fire detection and warning system apparatus</p>
UEECO0014 Prepare tender submissions for electrotechnology projects	UEECO0001 Estimate electrotechnology projects
UEEEC0067 Troubleshoot basic amplifier circuits	UEEEC0060 Repairs basic electronic apparatus faults by replacement of components
UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.	UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply
UEECD0019 Fabricate, assemble and dismantle utilities industry components	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0048 Program and commission commercial access control security systems	UEEEC0003 Assemble and set up basic security 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>UEEEC0027 Enter instructions and test wired and wireless security systems</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p>
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>
UEEDV0010 Select and arrange equipment for wireless communication networks	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0071 Troubleshoot fire protection systems	<p>UEEEC0008 Commission large fire protection systems</p> <p>UEEEC0026 Enter and verify programs for fire protection systems</p> <p>UEEEC0076 Verify compliance and functionality of fire protection system installations</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> <p>UEEEC0041 Install fire detection and warning system apparatus</p>
UEECS0003 Assemble, set up and test computing devices	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
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>
UEEEC0076 Verify compliance and functionality of fire protection system installations	<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>UEEEC0041 Install fire detection and warning system apparatus</p>

UEEEC0062 Set up and test residential video/audio equipment	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
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
UEECD0020 Fix and secure electrotechnology equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0028 Plan an integrated cabling installation system	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

	<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>
<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>
<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>

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
UEEEC0059 Repair routine business equipment faults	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment
UEEEC0042 Install large security systems	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
UEEIC0012 Develop structured programs to control external devices	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
UEEEC0050 Program and commission commercial security systems	UEEEC0003 Assemble and set up basic security 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>UEEEC0027 Enter instructions and test wired and wireless security systems</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p>
UEECD0043 Solve problems in direct current circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0016 Develop engineering solutions to RF amplifier problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0065 Solve problems in basic electronic circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0075 Troubleshoot single phase input d.c power supplies	<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>
UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals	<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>
UEEEC0041 Install fire detection and warning system apparatus	<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>

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	UEEAS0004 Select electronic components for assembly UEEAS0001 Assemble electronic components
UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply	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 UEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEC0028 Fault find and repair complex power supplies UEECD0019 Fabricate, assemble and dismantle utilities industry components UEEEC0069 Troubleshoot digital sub-systems
UEEEC0066 Troubleshoot amplifiers in an electronic apparatus	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>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
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>
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>
UEEEC0029 Fault find and repair electronic apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0001 Analyse materials for suitability in electrical equipment	UEECD0002 Analyse static and dynamic parameters of electrical equipment
UEEEC0052 Program and test large 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>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>
UEEEC0032 Fault find and repair high-volume office equipment	<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>UEEEC0059 Repair routine business equipment faults</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p>

UEEIC0005 Configure and maintain industrial control system networks	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0049 Program and commission commercial security closed-circuit television 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>UEEEC0027 Enter instructions and test wired and wireless security systems</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</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>

	UEECD0044 Solve problems in multiple path circuits
UEECD0049 Use advanced computational processes to provide solutions to energy sector engineering problems	UEECD0039 Provide solutions to basic engineering computational problems 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
UEEDV0004 Install and connect data and voice communication equipment	UEECD0043 Solve problems in direct current circuits UEEDV0005 Install and maintain cabling for multiple access to telecommunication services UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0046 Solve problems in single path circuits UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEDV0006 Install and modify optical fibre performance data communication cabling UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment

	<p>UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEEC0063 Solve fundamental electronic communications system problems	UEEEC0066 Troubleshoot amplifiers in an electronic apparatus
UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEDV0011 Set up and configure basic data communication systems	<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>
UEEEC0031 Fault find and repair global positioning systems	<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>UEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEEC0068 Troubleshoot communication systems</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>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p> <p>UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEEC0021 Diagnose and rectify faults in air navigation circuits and systems	<p>UEEEC0068 Troubleshoot communication systems</p> <p>UEEEC0053 Provide engineering solutions to air traffic control system problems</p> <p>UEEEC0061 Set up and adjust commercial radio frequency (RF) transmission and reception systems</p>
UEEEC0046 Operate and maintain amateur radio communication stations	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	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

	<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>UEEIC0032 Set up electronically controlled robotically operated complex systems</p>	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEIC0043 Solve problems in temperature measurement components and systems</p> <p>UEEIC0048 Verify compliance and functionality of instrumentation and control installations</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>UEEIC0029 Set up and adjust PID control loops</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p>

	<p>UEEIC0030 Set up and adjust advanced PID process control loops</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>UEEIC0041 Solve problems in pressure measurement components and systems</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals</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>UEEIC0001 Analyse complex electronic circuits controlling fluids</p> <p>UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls</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>
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	<p>UEEIC0039 Solve problems in flow measurement components and systems</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEEIC0018 Diagnose and rectify faults in digital controls systems</p> <p>UEEIC0038 Solve problems in density/level measurement components and systems</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
<p>UEEEC0055 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>UEEAS0006 Use lead-free soldering techniques</p>	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>

UEECD0021 Identify and select components, accessories and materials for energy sector work activities	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0009 Carry out routine work activities in an energy sector environment</p>
UEECS0019 Develop, implement and test object-oriented code	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
UEEEC0001 Analyse the performance of wireless-based electronic communication systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
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>

	UEECD0044 Solve problems in multiple path circuits
UEEEC0018 Develop engineering solutions to audio electronic problems	UEEEC0067 Troubleshoot basic amplifier circuits
UEEEC0035 Fault find and repair satellite-based surveillance and observation systems	<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>UEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEEC0068 Troubleshoot communication systems</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>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p>

	<p>UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEEC0040 Install commercial video/audio system components	<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>
UEEEC0023 Diagnose and rectify faults in digital transmission circuits and systems	UEEEC0024 Diagnose and rectify faults in electronic display circuits
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>
<p>UEEDV0013 Solve problems in voice and data communications circuits</p>	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>
<p>UEEEC0061 Set up and adjust commercial radio frequency (RF) transmission and reception systems</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>UEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p> <p>UEECD0044 Solve problems in multiple path circuits</p>

UEEEC0036 Fault find and repair sonar apparatus and systems	<p>UEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEEC0068 Troubleshoot communication systems</p> <p>UEEEC0019 Develop software solutions for microcontroller-based systems</p> <p>UEEEC0069 Troubleshoot digital subsystems</p> <p>UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus</p>
UEEEC0077 Verify functionality and compliance of custom electronic installations	<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>
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>
UEEEC0053 Provide engineering solutions to air traffic control system problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0017 Develop engineering solutions to analogue electronic problems	UEEEC0067 Troubleshoot basic amplifier circuits
UEEEC0073 Troubleshoot professional audio reproduction components	UEEEC0056 Repair predictable faults in audio components
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>
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 subsystems</p> <p>UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
<p>UEEIC0042 Solve problems in single phase electronic power control circuits</p>	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEC0065 Solve problems in basic electronic circuits</p>

	<p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEIC0043 Solve problems in temperature measurement components and systems</p> <p>UEEIC0048 Verify compliance and functionality of instrumentation and control installations</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEIC0029 Set up and adjust PID control loops</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEEIC0030 Set up and adjust advanced PID process control loops</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>UEEIC0041 Solve problems in pressure measurement components and systems</p> <p>UEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p>
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	<p>UEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</p> <p>UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</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>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>UEEIC0039 Solve problems in flow measurement components and systems</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEEIC0038 Solve problems in density/level measurement components and systems</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEEC0058 Repair predictable faults in television receivers	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>
UEEEC0019 Develop software solutions for microcontroller-based systems	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>
UEEEC0030 Fault find and repair electronic medical equipment	<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> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEEC0051 Program and commission commercial video/audio 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>UEEEC0040 Install commercial video/audio system components</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>UEEDV0009 Select and arrange data and voice equipment for local area networks</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>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>
<p>UEEEC0015 Develop basic plans for integrating security systems</p>	<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>
UEEEC0012 Design custom electronic equipment installations	<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>

UEEEC0070 Troubleshoot faults in television receivers	UEEEC0058 Repair predictable faults in television receivers
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
UEEEC0039 Install and test microwave antennae and waveguides	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment
UEEEC0024 Diagnose and rectify faults in electronic display circuits	UEEEC0070 Troubleshoot faults in television receivers
UEECD0040 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

UEEEC0044 Modify - redesign electronics and communications systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0020 Develop solutions for air surveillance apparatus and systems	UEEEC0068 Troubleshoot communication systems UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus UEEEC0053 Provide engineering solutions to air traffic control system problems
UEECS0031 Set up, create and implement content for a web server	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEC0006 Carry out repairs of predictable faults in video and audio replay/recording apparatus	UEEEC0075 Troubleshoot single phase input d.c power supplies UEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEC0028 Fault find and repair complex power supplies UEECD0019 Fabricate, assemble and dismantle utilities industry components UEEEC0069 Troubleshoot digital sub-systems
UEEIC0008 Design electronic control systems	UEEEL0021 Solve problems in magnetic and electromagnetic devices

	<p>UEEEL0003 Arrange circuits, control and protection for electrical installations</p> <p>UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks</p> <p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEIC0043 Solve problems in temperature measurement components and systems</p> <p>UEEIC0048 Verify compliance and functionality of instrumentation and control installations</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>UEEIC0029 Set up and adjust PID control loops</p> <p>UEEEL0010 Evaluate and modify low voltage socket outlets circuits</p> <p>UEEIC0030 Set up and adjust advanced PID process control loops</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>
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	<p>UEEIC0041 Solve problems in pressure measurement components and systems</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals</p> <p>UEEEL0023 Terminate cables, cords and accessories for low voltage circuits</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>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>UEEIC0039 Solve problems in flow measurement components and systems</p> <p>UEEEL0008 Evaluate and modify low voltage heating equipment and controls</p> <p>UEEIC0018 Diagnose and rectify faults in digital controls systems</p> <p>UEEIC0038 Solve problems in density/level measurement components and systems</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEIC0004 Calibrate, adjust and test measuring instruments	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

	<p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals</p>
<p>UEEEC0002 Assemble and install reception antennae and signal distribution equipment</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>
<p>UEEEC0033 Fault find and repair navigation systems</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>UEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEEC0068 Troubleshoot communication systems</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>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p> <p>UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
<p>UEEEC0034 Fault find and repair radar apparatus and systems</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>UEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEEC0068 Troubleshoot communication systems</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>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p> <p>UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus</p> <p>UEEEL0019 Solve problems in direct current (d.c.) machines</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>
UEEEC0009 Commission satellite and microwave communication systems	UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus

Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence

UEE60220 Advanced Diploma of Electronics and Communications Engineering	UEE60211 Advanced Diploma of Electronics and Communications Engineering		Equivalent
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Links

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

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