



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3	Updated superseded imported elective units.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• Updated superseded imported elective units• The following units added to electives (see UEE Release 5.0 Companion Volume Implementation Guide for mapping of deleted UEE units to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
UEECD0007	Apply work health and safety regulations, codes and practices in the workplace	20
UEECD0012	Contribute to risk management in electrotechnology systems	20
UEECD0014	Develop design briefs for electrotechnology projects	40
UEECD0016	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
UEEEEC000 7	Commission electronics and communications systems	20
UEEEEC001 1	Design and develop electronics/computer systems projects	40
UEEEEC004 3	Manage computer systems/electronics projects	40
UEEEEC004 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

MSS402023	Apply Just in Time procedures	20
MSS402042	Apply 5S procedures	20
MSS402084	Undertake root cause analysis	20
MSS402085	Contribute to the application of a proactive maintenance strategy	20
Group B: Qualification elective units		Weighting Points
UEEAS0001	Assemble electronic components*	40
UEEAS0002	Conduct quality and functional tests on assembled electronic apparatus*	20
UEEAS0003	Modify electronic sub-assemblies*	40
UEEAS0004	Select electronic components for assembly*	20
UEEAS0005	Set up and check electronic component assembly machines*	40
UEEAS0006	Use lead-free soldering techniques*	40
UEECD0008	Carry out preparatory energy sector work activities*	60
UEECD0019	Fabricate, assemble and dismantle utilities industry components*	40
UEECD0020	Fix and secure electrotechnology equipment*	20
UEECD0021	Identify and select components, accessories and materials for energy sector work activities*	20
UEECD0025	Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits*	40

UEECD0028	Plan an integrated cabling installation system*	40
UEECD0040	Solve basic problems electronic and digital equipment and circuits*	80
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
UEECS0018	Develop web pages for engineering applications	40
UEECS0022	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
UEECS0030	Set up, configure and test biometric devices	40
UEECS0032	Support computer hardware and software for engineering applications	120
UEECS0033	Use engineering applications software on personal computers	40
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
UEEDV0013	Solve problems in voice and data communications circuits*	40
UEEDV0014	Test, report and rectify faults in data and voice installations*	40
UEEEEC0002	Assemble and install reception antennae and signal distribution equipment*	60
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
UEEEEC0008	Commission large fire protection systems*	40
UEEEEC0019	Develop software solutions for microcontroller-based systems*	60
UEEEEC0026	Enter and verify programs for fire protection systems*	40
UEEEEC0027	Enter instructions and test wired and wireless security systems*	40
UEEEEC0028	Fault find and repair complex power supplies*	40
UEEEEC0029	Fault find and repair electronic apparatus*	40

UEEEEC003 2	Fault find and repair high-volume office equipment*	120
UEEEEC003 8	Find and repair microwave amplifier section faults in electronic apparatus*	40
UEEEEC003 9	Install and test microwave antennae and waveguides*	60
UEEEEC004 0	Install commercial video/audio system components*	120
UEEEEC004 1	Install fire detection and warning system apparatus*	40
UEEEEC004 2	Install large security systems*	100
UEEEEC004 6	Operate and maintain amateur radio communication stations*	40
UEEEEC004 8	Program and commission commercial access control security systems*	60
UEEEEC004 9	Program and commission commercial security closed-circuit television systems*	60
UEEEEC005 0	Program and commission commercial security systems*	60
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 0	Repairs basic electronic apparatus faults by replacement of components*	40

UEEEEC006 1	Set up and adjust commercial radio frequency (RF) transmission and reception systems*	60
UEEEEC006 2	Set up and test residential video/audio equipment*	40
UEEEEC006 3	Solve fundamental electronic communications system problems*	40
UEEEEC006 4	Solve oscillator problems*	40
UEEEEC006 5	Solve problems in basic electronic circuits*	100
UEEEEC006 6	Troubleshoot amplifiers in an electronic apparatus*	80
UEEEEC006 7	Troubleshoot basic amplifier circuits*	40
UEEEEC006 8	Troubleshoot communication systems*	80
UEEEEC006 9	Troubleshoot digital sub-systems*	80
UEEEEC007 0	Troubleshoot faults in television receivers*	120
UEEEEC007 1	Troubleshoot fire protection systems*	40
UEEEEC007 2	Troubleshoot microcontroller-based hardware systems	40
UEEEEC007 3	Troubleshoot professional audio reproduction components*	120
UEEEEC007 4	Troubleshoot resonance circuits in an electronic apparatus*	80
UEEEEC007 5	Troubleshoot single phase input d.c power supplies*	40
UEEEEC007 6	Verify compliance and functionality of fire protection system installations*	60

UEEE0077	Verify functionality and compliance of custom electronic installations*	40
UEEIC0002	Assemble, enter and verify operating instructions in microprocessor equipped devices*	20
UEEIC0004	Calibrate, adjust and test measuring instruments*	40
UEEIC0013	Develop, enter and verify discrete control programs for programmable controllers*	60
UEEIC0047	Use instrumentation drawings, specifications, standards and equipment manuals*	40
UEERL0001	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply*	20
UEERL0002	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
ICTPRG444	Analyse software requirements	60
ICTWEB447	Build basic website using development software and ICT tools	20
UEECD0010	Compile and produce an energy sector detailed report	60
UEECD0013	Develop and implement energy sector maintenance programs	60
UEECD0018	Establish, maintain and evaluate energy sector WHS/OHS systems	60
UEECD0047	Supervise and coordinate energy sector work activities	40
UEECO0001	Estimate electrotechnology projects	40
UEECO0013	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
UEEEEC000 9	Commission satellite and microwave communication systems*	40
UEEEEC001 2	Design custom electronic equipment installations*	120
UEEEEC002 2	Diagnose and rectify faults in camera circuits and equipment*	60
UEEEEC002 3	Diagnose and rectify faults in digital transmission circuits and systems*	80
UEEEEC002 4	Diagnose and rectify faults in electronic display circuits*	60
UEEEEC002 5	Diagnose and rectify faults in recording and replay equipment	60
UEEEEC003 0	Fault find and repair electronic medical equipment*	120
UEEEEC003 1	Fault find and repair global positioning systems*	60
UEEEEC003 3	Fault find and repair navigation systems*	60
UEEEEC003 4	Fault find and repair radar apparatus and systems*	120
UEEEEC003 5	Fault find and repair satellite-based surveillance and observation systems*	60
UEEEEC003 6	Fault find and repair sonar apparatus and systems*	120
UEEEEC003 7	Fault find and repair telecommunication apparatus and systems*	60

UEEEEC0051	Program and commission commercial video/audio systems*	40
UEEEEC0052	Program and test large security systems*	120
UEEIC0005	Configure and maintain industrial control system networks*	60
UEEIC0012	Develop structured programs to control external devices*	40
UEEIC0042	Solve problems in single phase electronic power control circuits*	60
UEERE0015	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
ICTNWK426	Install and configure client-server applications and services	60
ICTPRG440	Apply introductory programming skills in different languages	60
ICTPRG534	Deploy applications to production environments	40
ICTPRG549	Apply intermediate object-oriented language skills	60
UEECD0036	Provide engineering solutions for problems in complex multiple path circuits	60
UEECD0037	Provide engineering solutions for uses of materials and thermodynamic effects	80
UEECD0039	Provide solutions to basic engineering computational problems*	60
UEECD0054	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
UEEEEC000 1	Analyse the performance of wireless-based electronic communication systems*	40
UEEEEC001 0	Design and develop advanced digital systems	40
UEEEEC001 3	Design electronic printed circuit boards*	40
UEEEEC001 5	Develop basic plans for integrating security systems*	40
UEEEEC001 6	Develop engineering solutions to RF amplifier problems*	40
UEEEEC001 7	Develop engineering solutions to analogue electronic problems*	80
UEEEEC001 8	Develop engineering solutions to audio electronic problems*	60
UEEEEC002 0	Develop solutions for air surveillance apparatus and systems*	120
UEEEEC002 1	Diagnose and rectify faults in air navigation circuits and systems*	120
UEEEEC005 3	Provide engineering solutions to air traffic control system problems*	40

UEEIC0006	Design and configure human-machine interface (HMI) networks	60
UEEIC0010	Develop and test code for microcontroller devices	60
Group E: Qualification elective units		Weighting Points
MEM234010	Design microcontroller applications	40
UEECD0001	Analyse materials for suitability in electrical equipment*	80
UEECD0002	Analyse static and dynamic parameters of electrical equipment	80
UEECD0004	Apply material science to solving electrotechnology engineering problems	60
UEECD0005	Apply physics to solving electrotechnology engineering problems	60
UEECD0015	Develop engineering solutions to photonic system problems*	80
UEECD0026	Manage risk in electrotechnology activities	60
UEECD0041	Solve electrotechnical engineering problems	60
UEECD0049	Use advanced computational processes to provide solutions to energy sector engineering problems*	80
UEECO0003	Manage contract variations	40
UEECS0012	Design embedded controller control systems	80
UEECS0015	Develop energy sector computer network applications infrastructure	80
UEEEEC0005	Assess electronic apparatus compliance	60

UEEEEC001 4	Design signal-conditioning sub-systems	80
UEEEEC004 5	Modify digital signal processing (DSP) based sub-systems	80
UEEEEC004 7	Plan large electronic projects	60
UEEEEC005 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>
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>
UEEEC0027 Enter instructions and test wired and wireless security systems	<p>UEEEC0003 Assemble and set up basic security systems</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p>

UEEAS0002 Conduct quality and functional tests on assembled electronic apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0008 Commission large fire protection systems	<p>UEEEEC0026 Enter and verify programs for fire protection systems</p> <p>UEEEEC0076 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>UEEEEC0041 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>
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>

UEEEEC0026 Enter and verify programs for fire protection systems	<p>UEEEEC0076 Verify compliance and functionality of fire protection system installations</p> <p>UEEED0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEED0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEEED0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEEED0020 Fix and secure electrotechnology equipment</p> <p>UEEEEC0041 Install fire detection and warning system apparatus</p>
UEEEO0014 Prepare tender submissions for electrotechnology projects	UEEEO0001 Estimate electrotechnology projects
UEEEEC0067 Troubleshoot basic amplifier circuits	UEEEEC0060 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
UEEED0019 Fabricate, assemble and dismantle utilities industry components	UEEED0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0048 Program and commission commercial access control security systems	UEEEEC0003 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>UEEEEC0027 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>
UEEEEC0028 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>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p>
UEEDV0010 Select and arrange equipment for wireless communication networks	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>
UEEEEC0071 Troubleshoot fire protection systems	<p>UEEEEC0008 Commission large fire protection systems</p> <p>UEEEEC0026 Enter and verify programs for fire protection systems</p> <p>UEEEEC0076 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>UEEEEC0041 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>
UEEEEC0076 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>UEEEEC0041 Install fire detection and warning system apparatus</p>

UEEECD0062 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	<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>
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>
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	<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>
UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling	<p>UEECD0043 Solve problems in direct current circuits</p> <p>UEEDV0005 Install and maintain cabling for multiple access to telecommunication services</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p> <p>UEECD0044 Solve problems in multiple path 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>

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
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>
UEEEEC0042 Install large security systems	<p>UEEEEC0003 Assemble and set up basic security systems</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>
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
UEEEEC0050 Program and commission commercial security systems	UEEEEC0003 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>UEEEEC0027 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
UEEEEC0016 Develop engineering solutions to RF amplifier problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0065 Solve problems in basic electronic circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
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>
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>
UEEEEC0041 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
UEEEEC0057 Repair predictable faults in general electronic apparatus	UEEEEC0075 Troubleshoot single phase input d.c power supplies UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEEC0028 Fault find and repair complex power supplies UEECD0019 Fabricate, assemble and dismantle utilities industry components UEEEEC0069 Troubleshoot digital sub-systems
UEEEEC0066 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>UEEEEC0067 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	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>
UEEEEC0060 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>
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>
UEEEEC0029 Fault find and repair electronic apparatus	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>

UEECD0001 Analyse materials for suitability in electrical equipment	UEECD0002 Analyse static and dynamic parameters of electrical equipment
UEEEEC0052 Program and test large security systems	<p>UEEEEC0048 Program and commission commercial access control security systems</p> <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> <p>UEEEEC0049 Program and commission commercial security closed-circuit television systems</p> <p>UEEEEC0050 Program and commission commercial security systems</p>
UEEEEC0032 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>UEEEEC0059 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
UEEEEC0049 Program and commission commercial security closed-circuit television 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>UEEEEC0027 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	<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>
UEEEEC0054 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	<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>
UEEEEC0063 Solve fundamental electronic communications system problems	UEEEEC0066 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>
UEEEEC0031 Fault find and repair global positioning systems	<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>UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEEEC0068 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>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p> <p>UEEEEC0038 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>
UEEEEC0021 Diagnose and rectify faults in air navigation circuits and systems	<p>UEEEEC0068 Troubleshoot communication systems</p> <p>UEEEEC0053 Provide engineering solutions to air traffic control system problems</p> <p>UEEEEC0061 Set up and adjust commercial radio frequency (RF) transmission and reception systems</p>
UEEEEC0046 Operate and maintain amateur radio communication stations	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	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>
UEEEC0055 Repair basic computer equipment faults by replacement of modules/sub-assemblies	<p>UEECD0043 Solve problems in direct current circuits</p> <p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEECD0046 Solve problems in single path circuits</p> <p>UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</p> <p>UEECD0040 Solve basic problems electronic and digital equipment and circuits</p> <p>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEAS0006 Use lead-free soldering techniques	<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
UEEEEC0013 Design electronic printed circuit boards	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0001 Analyse the performance of wireless-based electronic communication systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus	<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>

	UEECD0044 Solve problems in multiple path circuits
UEEEEC0018 Develop engineering solutions to audio electronic problems	UEEEEC0067 Troubleshoot basic amplifier circuits
UEEEEC0035 Fault find and repair satellite-based surveillance and observation systems	<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>UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEEEC0068 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>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p>

	<p>UEEEEC0038 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>
UEEEEC0040 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>
UEEEEC0023 Diagnose and rectify faults in digital transmission circuits and systems	UEEEEC0024 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>
UEEDV0013 Solve problems in voice and data communications circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0061 Set up and adjust commercial radio frequency (RF) transmission and reception systems	<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>UEEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p> <p>UEECD0044 Solve problems in multiple path circuits</p>

<p>UEEEEC0036 Fault find and repair sonar apparatus and systems</p>	<p>UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEEEC0068 Troubleshoot communication systems</p> <p>UEEEEC0019 Develop software solutions for microcontroller-based systems</p> <p>UEEEEC0069 Troubleshoot digital sub-systems</p> <p>UEEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus</p>
<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>
<p>UEEEEC0056 Repair predictable faults in audio components</p>	<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>
UEEEEC0053 Provide engineering solutions to air traffic control system problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0017 Develop engineering solutions to analogue electronic problems	UEEEEC0067 Troubleshoot basic amplifier circuits
UEEEEC0073 Troubleshoot professional audio reproduction components	UEEEEC0056 Repair predictable faults in audio components
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>
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> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEIC0042 Solve problems in single phase electronic power control circuits	<p>UEEEL0021 Solve problems in magnetic and electromagnetic devices</p> <p>UEEEEC0065 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>UEEEEC0067 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>UEEEEC0074 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>
UEEEEC0058 Repair predictable faults in television receivers	UEEEEC0075 Troubleshoot single phase input d.c power supplies

	<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>
UEEEEC0019 Develop software solutions for microcontroller-based systems	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p>
UEEEEC0030 Fault find and repair electronic medical equipment	<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> <p>UEECD0044 Solve problems in multiple path circuits</p>
UEEEEC0051 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>UEEEEC0040 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>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>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>UEEEEC0052 Program and test large security systems</p> <p>UEECD0020 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>
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>

UEEEEC0070 Troubleshoot faults in television receivers	UEEEEC0058 Repair predictable faults in television receivers
UEEEEC0022 Diagnose and rectify faults in camera circuits and equipment	<p>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</p> <p>UEEEEC0029 Fault find and repair electronic apparatus</p>
UEEEEC0039 Install and test microwave antennae and waveguides	<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>
UEEEEC0024 Diagnose and rectify faults in electronic display circuits	UEEEEC0070 Troubleshoot faults in television receivers
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>

UEEEEC0044 Modify - redesign electronics and communications systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0020 Develop solutions for air surveillance apparatus and systems	<p>UEEEEC0068 Troubleshoot communication systems</p> <p>UEEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus</p> <p>UEEEEC0053 Provide engineering solutions to air traffic control system problems</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
UEEEEC0006 Carry out repairs of predictable faults in video and audio replay/recording apparatus	<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>
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>
UEEEEC0002 Assemble and install reception antennae and signal distribution 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>UEECD0019 Fabricate, assemble and dismantle utilities industry components</p> <p>UEECD0020 Fix and secure electrotechnology equipment</p>
UEEEEC0033 Fault find and repair navigation systems	<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>UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEEEC0068 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>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p> <p>UEEEEC0038 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>
UEEEEC0034 Fault find and repair radar apparatus and systems	<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>UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus</p> <p>UEEEEC0068 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>UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components</p> <p>UEEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEEEL0020 Solve problems in low voltage a.c. circuits</p> <p>UEEEEC0063 Solve fundamental electronic communications system problems</p> <p>UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p> <p>UEEEEC0038 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>
UEEEEC0064 Solve oscillator problems	<p>UEEEEC0067 Troubleshoot basic amplifier circuits</p> <p>UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus</p>
UEEEEC0009 Commission satellite and microwave communication systems	<p>UEEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus</p>

Qualification Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
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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>