



**Australian Government**

# **UEE41520 Certificate IV in Video and Audio Systems**

**Release 2**

# UEE41520 Certificate IV in Video and Audio Systems

## Modification History

Release 2. This is the second release of this qualification in the UEE Electrotechnology Training Package. Modifications include:

- Updated superseded imported elective units
- ICTPRG444 added to electives (see UEE Release 5.0 Companion Volume Implementation Guide for mapping of deleted UEE units to imported ICT units)

Release 1. This is the first release of this qualification in the UEE Electrotechnology Training Package

## Qualification Description

This qualification covers competencies to service high-end audio, video, display systems and high-definition television (HDTV).

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 **1280 weighting points** comprising:

**840 core weighting points** listed below; plus

**440 general elective weighting points** from the general elective units listed below.

Choose a total of **440 weighting points** elective units from the list below, of which between 0 and 140 **weighting points** can be taken from Group A; and between 0 and 220 **weighting points** must be taken from Group B; and between 220 and 440 **weighting points** must be taken from Group C; or all 440 **weighting points** can be taken from Group C.

**Up to 220 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. Previously assigned weighting points are listed in the UEE Electrotechnology Training Package Companion Volume Implementation Guide (CVIG), if not listed weighting points will be 10 points, unless directed from the Electrotechnology Industry Reference Committee (IRC).

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.

<b>Core units</b>		<b>Weighting Points</b>
UEECD0007	Apply work health and safety regulations, codes and practices in the workplace	20
UEECD0010	Compile and produce an energy sector detailed report	60
UEECD0016	Document and apply measures to control WHS risks associated with electrotechnology work*	20
UEECD0019	Fabricate, assemble and dismantle utilities industry components*	40
UEECD0024	Implement and monitor energy sector WHS policies and procedures	20
UEECD0027	Participate in development and follow a personal competency development plan	20
UEECD0043	Solve problems in direct current circuits*	80
UEEEEC0028	Fault find and repair complex power supplies*	40
UEEEEC0058	Repair predictable faults in television receivers*	120
UEEEEC0060	Repairs basic electronic apparatus faults by replacement of components*	40
UEEEEC0063	Solve fundamental electronic communications system problems*	40
UEEEEC0066	Troubleshoot amplifiers in an electronic apparatus*	80
UEEEEC0067	Troubleshoot basic amplifier circuits*	40
UEEEEC0069	Troubleshoot digital sub-systems*	80
UEEEEC0074	Troubleshoot resonance circuits in an electronic apparatus*	80
UEEEEC0075	Troubleshoot single phase input d.c power supplies*	40

UEERE0015 Implement and monitor energy sector environmental and sustainable policies and procedures 20

**Group A: Imported and common elective units. Weighting Points**

BSBOPS203 Deliver a service to customers 20

ICTICT214 Operate application software packages 20

UEECD0011 Comply with scheduled and preventative maintenance program processes 20

UEECD0035 Provide basic instruction in the use of electrotechnology apparatus 20

UEECO0002 Maintain documentation 20

UEECO0015 Provide quotations for installation or service jobs 20

UEECO0017 Source and purchase material/parts for installation or service jobs 20

**Group B: Qualification elective units. Weighting Points**

UEEAS0001 Assemble electronic components\* 40

UEEAS0006 Use lead-free soldering techniques\* 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

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
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	120

	replay/recording apparatus*	
UEEEEC0019	Develop software solutions for microcontroller-based systems*	60
UEEEEC0027	Enter instructions and test wired and wireless security systems*	40
UEEEEC0029	Fault find and repair electronic apparatus*	40
UEEEEC0032	Fault find and repair high-volume office equipment*	120
UEEEEC0038	Find and repair microwave amplifier section faults in electronic apparatus*	40
UEEEEC0039	Install and test microwave antennae and waveguides*	60
UEEEEC0040	Install commercial video/audio system components*	120
UEEEEC0042	Install large security systems*	100
UEEEEC0048	Program and commission commercial access control security systems*	60
UEEEEC0049	Program and commission commercial security closed-circuit television systems*	60
UEEEEC0050	Program and commission commercial security systems*	60
UEEEEC0055	Repair basic computer equipment faults by replacement of modules/sub-assemblies*	40
UEEEEC0056	Repair predictable faults in audio components*	40
UEEEEC0057	Repair predictable faults in general electronic apparatus*	40
UEEEEC0059	Repair routine business equipment faults*	120
UEEEEC0061	Set up and adjust commercial radio frequency (RF) transmission and reception systems*	60
UEEEEC0062	Set up and test residential video/audio equipment*	40
UEEEEC0064	Solve oscillator problems*	40
UEEEEC0065	Solve problems in basic electronic circuits*	100
UEEEEC0068	Troubleshoot communication systems*	80
UEEEEC0070	Troubleshoot faults in television receivers*	120

UEEEEC0072	Troubleshoot microcontroller-based hardware systems	40
UEEEEC0073	Troubleshoot professional audio reproduction components*	120
UEEEEC0077	Verify functionality and compliance of custom electronic installations*	40
UEEIC0002	Assemble, enter and verify operating instructions in microprocessor equipped devices*	20

**Group C: Qualification elective units.****Weighting Points**

ICTPRG444	Analyse software requirements	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
UEECS0002	Analyse and implement biometric measuring techniques and applications	120
UEECS0020	Evaluate and modify object-oriented code programs	40
UEEEEC0012	Design custom electronic equipment installations*	120
UEEEEC0015	Develop basic plans for integrating security systems*	40
UEEEEC0022	Diagnose and rectify faults in camera circuits and equipment*	60
UEEEEC0023	Diagnose and rectify faults in digital transmission circuits and systems*	80
UEEEEC0024	Diagnose and rectify faults in electronic display circuits*	60
UEEEEC0025	Diagnose and rectify faults in recording and replay equipment	60
UEEEEC0030	Fault find and repair electronic medical equipment*	120
UEEEEC0037	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
UEEIC0012	Develop structured programs to control external devices*	40

## Qualification Mapping Information

This qualification replaces and is equivalent to UEE41511 Certificate IV in Video and Audio Systems

## Links

Companion Volume implementation guides are found in VETNet - -

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