



Australian Government

UEE41520 Certificate IV in Video and Audio Systems

Release 1

UEE41520 Certificate IV in Video and Audio Systems

Modification History

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.

| Core units | | Weighting Points |
|------------|---|------------------|
| 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 |
|---|-------------------------|

| | | |
|-----------|--|----|
| BSBCUS201 | Deliver a service to customers | 20 |
| ICTICT203 | 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 | 40 |

| | | |
|-----------|---|-----|
| | and software | |
| 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 |

| | | |
|------------|---|-----|
| UEEEEC0003 | Assemble and set up basic security systems* | 80 |
| UEEEEC0004 | Assemble and set up fixed video/audio components and systems in buildings and premises* | 120 |
| UEEEEC0006 | Carry out repairs of predictable faults in video and audio replay/recording apparatus* | 120 |
| UEEEEC0019 | Develop software solutions for microcontroller-based systems* | 60 |
| 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**

| | | |
|------------|---|-----|
| 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 | 60 |

circuits*

| | | |
|------------|--|-----|
| 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>