



Australian Government

UEE40120 Certificate IV in Computer Systems

Release 2

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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- Updated superseded imported elective units
- The following imported units added to electives (see UEE Release 5.0 Companion Volume Implementation Guide for mapping of deleted UEE units to imported ICT units):
 - ICTNWK309
 - ICTNWK426
 - ICTPRG444
 - ICTTEN420

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

Qualification Description

This qualification covers competencies to select, install, commission, fault find and maintain data processing, communications and control aspects of systems used for monitoring and control of systems for access, surveillance, safety and effective operation of manufacturing, buildings, structures, premises and precincts.

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:

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

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

Choose a total of **680 weighting points** elective units from the list below, of which between 0 and 220 **weighting points** can be taken from Group A; and between 0 and 500 **weighting points** must be taken from Group B; and between 180 and 680 **weighting points** must be taken from Group C; or all 680 **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
UEECD0042	Solve problems in ELV single path circuits*	40
UEECS0003	Assemble, set up and test computing devices*	80
UEECS0022	Install and configure a client computer operating system and software	40
UEECS0029	Set up and configure basic local area network (LAN)*	80
UEECS0032	Support computer hardware and software for engineering applications	120
UEECS0033	Use engineering applications software on personal computers	40
UEERE0015	Implement and monitor energy sector environmental and	20

sustainable policies and procedures

Group A: Imported and common elective units.		Weighting Points
BSBOPS203	Deliver a service to customers	20
ICTICT214	Operate application software packages	20
ICTTEN419	Implement and troubleshoot enterprise routers and switches	100
ICTTEN420	Design, install and configure an internetwork	100
ICTTEN421	Apply advanced routing protocols to network design	80
ICTTEN422	Configure and troubleshoot advanced network switching	80
ICTTEN423	Install and maintain a wide area network	80
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
UEEAS0003	Modify electronic sub-assemblies*	40
UEEAS0004	Select electronic components for assembly*	20
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
UEECD0040	Solve basic problems electronic and digital equipment	80

	and circuits*	
UEECD0043	Solve problems in direct current circuits*	80
UEECD0045	Solve problems in multiple path extra-low voltage (ELV) a.c. circuits*	40
UEECD0051	Use drawings, diagrams, schedules, standards, codes and specifications*	40
UEECS0018	Develop web pages for engineering applications	40
UEECS0028	Select, install, configure and test multimedia components	40
UEECS0030	Set up, configure and test biometric devices	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
UEEDV0012	Set up and configure the wireless capabilities of communications and data storage devices	40
UEEEC0003	Assemble and set up basic security systems*	80
UEEEC0019	Develop software solutions for microcontroller-based systems*	60
UEEEC0027	Enter instructions and test wired and wireless security systems*	40
UEEEC0042	Install large security systems*	100
UEEEC0055	Repair basic computer equipment faults by replacement of modules/sub-assemblies*	40

UEEEEC0059	Repair routine business equipment faults*	120
UEEEEC0060	Repairs basic electronic apparatus faults by replacement of components*	40
UEEEEC0065	Solve problems in basic electronic circuits*	100
UEEEEC0066	Troubleshoot amplifiers in an electronic apparatus*	80
UEEEEC0067	Troubleshoot basic amplifier circuits*	40
UEEEEC0069	Troubleshoot digital sub-systems*	80
UEEEEC0072	Troubleshoot microcontroller-based hardware systems	40
UEEEEC0074	Troubleshoot resonance circuits in an electronic apparatus*	80
UEEEEC0075	Troubleshoot single phase input d.c power supplies*	40
UEEIC0002	Assemble, enter and verify operating instructions in microprocessor equipped devices*	20
UEEIC0047	Use instrumentation drawings, specifications, standards and equipment manuals*	40

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

ICTPRG444	Analyse software requirements	60
ICTNWK309	Configure and administer network operating systems	70
ICTNWK426	Install and configure client-server applications and services	60
ICTTEN420	Design, install and configure an internet network	100
UEECO0001	Estimate electrotechnology projects	40
UEECO0013	Prepare specifications for the supply of materials and equipment for electrotechnology projects	40
UEECD0013	Develop and implement energy sector maintenance programs	60
UEECD0047	Supervise and coordinate energy sector work activities	40
UEECS0002	Analyse and implement biometric measuring techniques and applications	120

UEECS0014	Develop computer network services*	120
UEECS0020	Evaluate and modify object-oriented code programs	40
UEECS0021	Install and administer UNIX/LINUX-based networked computers	80
UEECS0023	Install and configure network systems for internetworking*	120
UEECS0024	Integrate multiple computer operating systems on a client server local area network	80
UEEIC0012	Develop structured programs to control external devices*	40

Qualification Mapping Information

This qualification replaces and is equivalent to UEE40111 Certificate IV in Computer Systems

Links

Companion Volume implementation guides are found in VETNet - -

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