



**Australian Government**

# **UEE40111 Certificate IV in Computer Systems**

**Release: 2**

## UEE40111 Certificate IV in Computer Systems

### Modification History

Release	Action	Core/Elective	Details	Points
2	Add	Group B	UETTDRIS67A Solve problems in energy supply network equipment	80
2	Add	Group B	UETTDRIS68A Solve problems in energy supply network protection equipment and systems	40
2	Add	Group B	UETTDRIS44A Perform HV field switching operation to a given schedule	60
2	Update	Group A	HLTCPR211A Perform CPR	10
2	Update	Group A	HLTFA311A Apply first aid	10
2	Edit		Edit Name to reflect correct Unit title UEENEED104A Use engineering applications software on personal computers	40

### Description

#### Scope

This qualification provides 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.

### Pathways Information

Not applicable.

### Licensing/Regulatory Information

Not applicable.

## **Entry Requirements**

Not applicable.

## **Employability Skills Summary**

Not applicable.

## Packaging Rules

### Completion requirements

The requirements for granting this qualification will be met when competency is demonstrated and achieved for:

- All the Core competency standard units, defined in the Core Competency Standard Units table below and
- A combination of Elective competency standard units to achieve a total weighting of 680 points in accordance with the Elective Competency Standard Units table below.

<b>Core Competency Standard Units</b>		<b>Weighting Points</b>
All Core competency standard units to be achieved		
UEENEED102A	Assemble, set-up and test computing devices	80
UEENEED104A	Use engineering applications software on personal computers	40
UEENEED112A	Support computer hardware and software for engineering applications	120
UEENEED143A	Install and configure a client computer operating system and software	40
UEENEED146A	Set up and configure basic local area network (LAN)	80
UEENEEE038B	Participate in development and follow a personal competency development plan	20
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components	40
UEENEEE103A	Solve problems in ELV single path circuits	40
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures	20
UEENEEE124A	Compile and produce an energy sector detailed report	60
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work	20

UEENEEK145A	Implement and monitor energy sector environmental and sustainable energy policies and procedures	20
<b>Total points in core</b>		<b>600</b>

### Elective Competency Standard Units

Complete Elective units to achieve a total of weighting of 680 points from the following groups:

Group		Minimum points	Maximum points
<b>A</b>	<b>Imported and Common Elective Units</b> Imported units from other training packages and/or state accredited courses can be added to this group, but they must be selected from qualifications where the unit is first packaged at AQF level 4. If units have not being assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.	0	220
<b>B</b>	<b>Qualification Elective Units</b>	0	500
<b>C</b>	<b>Qualification Elective Units</b> You may select all your elective units from this Group	180	680

Group A – Imported and Common Elective Units		Weighting Points
You may complete units to a maximum weighting of 220		
UEENEEC001B	Maintain documentation	20
UEENEEC002B	Source and purchase material/parts for installation or service jobs	20
UEENEEC003B	Provide quotations for installation or service jobs	20
UEENEEC010B	Deliver a service to customers	20
UEENEEC101A	Use computer applications relevant to a workplace	20
UEENEEC009B	Comply with scheduled and preventative maintenance program processes	20

UEENEEE020B	Provide basic instruction in the use of electrotechnology apparatus	20
ICTTEN4210A	Implement and troubleshoot enterprise routers and switches	100
ICTTEN4211A	Design, install and configure an internetwork	100
ICTTEN4212A	Apply advanced routing protocols to network design	80
ICTTEN4213A	Configure and troubleshoot advanced network switching	80
ICTTEN4214A	Install and maintain a wide area network	80
	<p>Imported units from other training packages and/or state accredited courses can be added to this group, but they must be selected from qualifications where the unit is first packaged at AQF level 4. If units have not being assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.</p> <p>Note: For further information see Application of the NQC Flexibility Formula, UEE11 Electrotechnology Training Package, Version 1, Volume 1 Qualification Framework</p>	Up to 220 points

<b>Group B – Qualification Elective Units</b>		<b>Weighting Points</b>
You may complete units to a maximum weighting of 500		
UEENEEA101A	Assemble electronic components	40
UEENEEA102A	Select electronic components for assembly	20
UEENEEA104A	Modify electronic sub assemblies	40
UEENEEA106A	Use lead-free soldering techniques	40
UEENEEED129A	Develop web pages for engineering applications	40
UEENEEED130A	Select, install, configure and test multimedia components	40
UEENEEED153A	Set up, configure and test biometric devices	40
UEENEEEEE104A	Solve problems in d.c. circuits	80
UEENEEEEE105A	Fix and secure electrotechnology equipment	20
UEENEEEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	40
UEENEEEEE108A	Lay wiring/cabbling and terminate accessories for extra-low voltage (ELV) circuits	40
UEENEEEEE119A	Solve problems in multiple path extra low voltage (ELV) a.c. circuits	40
UEENEEEEE123A	Solve basic problems electronic and digital equipment and circuits	80
UEENEEEEE179A	Identify and select components, accessories and materials for energy sector work activities	20
UEENEEEF102A	Install and maintain cabbling for multiple access to telecommunication services	120
UEENEEEF104A	Install and modify performance data communication copper cabbling	40
UEENEEEF105A	Install and modify optical fibre performance data communication cabbling	40
UEENEEEF107A	Set up and configure the wireless capabilities of	40

	communications and data storage devices	
UEENEEF108A	Select and arrange equipment for wireless communication networks	40
UEENEEF109A	Install and connect data and voice communication equipment	40
UEENEEF110A	Select and arrange data and voice equipment for local area networks	40
UEENEEH101A	Repair basic computer equipment faults by replacement of modules/sub-assemblies	40
UEENEEH102A	Repairs basic electronic apparatus faults by replacement of components	40
UEENEEH103A	Repair routine business equipment faults	120
UEENEEH111A	Troubleshoot single phase input d.c. power supplies	40
UEENEEH112A	Troubleshoot digital sub-systems	80
UEENEEH113A	Troubleshoot amplifiers in an electronic apparatus	80
UEENEEH114A	Troubleshoot resonance circuits in an electronic apparatus	80
UEENEEH115A	Develop software solutions for microcontroller based systems	60
UEENEEH139A	Troubleshoot basic amplifier circuits	40
UEENEEH150A	Assemble and set up basic security systems	80
UEENEEH151A	Install large security systems	100
UEENEEH152A	Enter instructions and test wired and wireless security systems	40
UEENEEH166A	Troubleshoot microcontroller based hardware systems	40
UEENEEH169A	Solve problems in basic electronic circuits	100
UEENEEI101A	Use instrumentation drawings, specification, standards and equipment manuals	40
UEENEEI116A	Assemble, enter and verify operating instructions in microprocessor equipped devices	20



<b>Group C – Qualification Elective Units</b>		<b>Weighting Points</b>
You must complete units to a minimum weighting of 180 You may select all your elective units from this Group		
UEENEEC004B	Prepare specifications for the supply of materials and equipment for electrotechnology projects	40
UEENEEC005B	Estimate electrotechnology projects	40
UEENEED103A	Evaluate and modify object oriented code programs	40
UEENEED113A	Install and administer Unix based networked computers	80
UEENEED115A	Administer computer networks	80
UEENEED116A	Develop computer network services	120
UEENEED117A	Install and configure network systems for internetworking	120
UEENEED124A	Integrate multiple computer operating systems on a client server local area network	80
UEENEED154A	Analyse and implement biometric measuring techniques and applications	120
UEENEEE110A	Develop and implement energy sector maintenance programs	60
UEENEEE114A	Supervise and coordinate energy sector work activities	40
UEENEEH181A	Design electronic printed circuit boards	40
UEENEEI155A	Develop structured programs to control external devices	40

**Note:**

1. Pre-requisite pathways shall be identified and met for all elective units selected.
2. In selecting elective units considerations to career planning advice should be given to units that form part of a pre-requisite pathway for the progression to achieve particular competencies or qualification at a higher level.

**END OF QUALIFICATION**

## **Custom Content Section**

Not applicable.