

UEE30910 Certificate III in Electronics and Communications

Release: 1



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Modification History

Not Applicable

Description

Scope

This qualification provides competencies to select, install, set up, test, fault find, repair and maintain electronic equipment and devices at component/sub-assembly level with options in communications, audio, video and TV, personal computer and networks, security and custom installations

Pathways Information

Not Applicable

Licensing/Regulatory Information

Not Applicable

Entry Requirements

Not Applicable

Employability Skills Summary

Not Applicable

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Packaging Rules

Completion requirements

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

 All the Core competency st A combination of Elective of selected from Group A and weighting of 380 points, and All the required pre-requisition 		
Core Competency Standard V		
All Core competency standard	units to be achieved	
UEENEEC021B	Participate in electronics and communications work and competency development activities	60
UEENEEE001B	Apply OHS practices in the workplace	20
UEENEEE002B	Dismantle, assemble and fabricate electrotechnology components	40
UEENEEE003B	Solve problems in extra-low voltage single path circuits	40
UEENEEE004B	Solve problems in multiple path d.c. circuits	40
UEENEEE034B	Document occupational hazards and risks in electronics	20
UEENEEH002B	Carry out basic repairs to electronic apparatus by replacement of components	40
UEENEEH011B	Troubleshoot d.c. power supplies with single phase input	40
UEENEEH012B	Troubleshoot digital subsystems	80
UEENEEH013B	Troubleshoot amplifiers	80

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UEENEEH014B	Troubleshoot frequency dependent circuits	80
UEENEEH038B	Find and repair faults in complex power supplies	40
UEENEEH039B	Troubleshoot basic amplifiers	40
UEENEEH046B	Solve fundamental problems in electronic communications systems	40
UEENEEK042A	Participate in environmentally sustainable work practices	20
Total points in core		680

Elective Competency Standard Units

Complete Elective units to achieve a total of weighting of 380 points from the following groups:

Group		Minimum points	Maximum points
A	Imported and Common Elective Units	0	180
	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 3. If units have not being assigned a weighting in the Electrotechnology Training Package, their weighting will be 10 points.		
В	Qualification Electives - Schedule 3 Units You may select all your	200	380

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elective units from this	
Group	

Group A - Imported and Common Elective Units		Weighting Points
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
UEENEED001B	Use basic computer applications relevant to a workplace	20
UEENEEE009B	Comply with scheduled and preventative maintenance program processes	20
UEENEEE020B	Provide basic instruction in the use of electrotechnology apparatus	20
ICTTEN3056A	Install telecommunications network equipment	40
MSACMS200A	Apply competitive manufacturing practices	20
MSACMT220A	Apply quick changeover procedures	20
MSACMT221A	Apply Just in Time (JIT) procedures	20
MSACMT240A	Apply 5S procedures in a manufacturing environment	20
MSACMT280A	Undertake root cause analysis	20
MSACMT281A	Contribute to the application of a proactive maintenance strategy	20

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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 3. If units have not being assigned a weighting in the Electrotechnology Training Package, their weighting will be 10 points.

Note: For further information see *Transition to NQC Packaging Rules for Flexibility*, Page 48, UEE07 Electrotechnology Training Package, Version 4, Volume 1 Preliminary Information.

Up to 180 points

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Group B - Qualification l	Electives - Schedule 3 Units	Weighting Points
You may select all your elective units from this Group		
UEENEEA001B	Assemble electronic apparatus	40
UEENEEA002B	Select electronic components	20
UEENEEA003B	Set up and check electronic component placement machines	40
UEENEEA004B	Rework electronic sub assemblies	40
UEENEEA005B	Conduct functional and quality tests on assembled electronic apparatus	20
UEENEEA006B	Apply lead-free soldering techniques	40
UEENEEB001B	Operate and maintain an amateur radio communication station	40
UEENEED002B	Assemble, set up and test personal computers	80
UEENEED004B	Use engineering applications software	40
UEENEED005B	Enter and verify operating instructions in microprocessor equipped devices	20
UEENEED012B	Support computer hardware and software	120
UEENEED029B	Develop basic web pages for engineering applications	40
UEENEED030B	Select, install, configure and test multimedia devices	40
UEENEED031B	Develop and validate basic integrated systems	60
UEENEED043B	Install and configure a computer operating system and software	40

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UEENEED046B	Set up and configure basic local area network	40
UEENEED053B	Set up and test biometric devices	40
UEENEEE005B	Fix and secure equipment	20
UEENEEE007B	Use drawings, diagrams, schedules and manuals	40
UEENEEE008B	Lay wiring/cabling and terminate accessories for extra-low voltage circuits	40
UEENEEE021B	Plan an integrated cabling system	40
UEENEEE022B	Carry out preparatory electrotechnology work activities	60
UEENEEE023B	Solve basic problems in electronic and digital equipment	80
UEENEEE041B	Use of routine equipment/plant/technologies in an electrotechnology environment	60
UEENEEE046B	Identify affects of energy on machinery and materials in an electrotechnology environment	120
UEENEEE048C	Carry out routine work activities in an electrotechnology environment	40
UEENEEE050B	Undertake computations in an electrotechnology environment	120
UEENEEE079A	Identify and select components, accessories and materials for electrotechnology work activities	20
UEENEEF002B	Lay and connect cables for multiple access to telecommunication services	120
UEENEEF004B	Install and modify performance data communication structured	40

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	cabling	
UEENEEF005B	Install and modify performance data communication optical fibre cabling	40
UEENEEF006B	Solve problems in data and voice communications circuits	40
UEENEEF007B	Set up wireless capabilities of communications and data storage devices	40
UEENEEF008B	Select and arrange equipment for wireless networks	60
UEENEEF009B	Install and connect voice and data communications equipment	40
UEENEEF010B	Select and arrange equipment for local area networks	120
UEENEEF011B	Test, report and rectify faults in voice and data installations	60
UEENEEF014B	Set up and configure basic data communications systems	40
UEENEEH001B	Carry out basic repairs to computer equipment by replacement of modules/sub-assemblies	40
UEENEEH003B	Carry out routine repairs to business equipment	120
UEENEEH004B	Set up and test residential audio/video equipment	40
UEENEEH005B	Verify compliance and functionality of custom electronic installations	40
UEENEEH006B	Assemble and set up fixed audio/video components and systems in buildings and premises	120
UEENEEH007B	Carry out repairs of predictable	40

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	faults in general electronic apparatus	
UEENEEH008B	Assemble and erect reception antennae and signal distribution equipment	60
UEENEEH009B	Set up and test gaming/games equipment	60
UEENEEH010B	Install commercial audio/video system components	120
UEENEEH015B	Develop software solutions in microcontroller based systems	60
UEENEEH016B	Find and repair faults in the microwave amplifier sections of electronic apparatus	40
UEENEEH017B	Carry out repairs of predictable faults in audio and video replay/recording apparatus	120
UEENEEH018B	Find and repair faults in electronic apparatus	40
UEENEEH019B	Carry out repairs of predictable faults in television receivers	120
UEENEEH020B	Find and repair faults in gaming and games equipment	80
UEENEEH021B	Find and repair faults in high volume office equipment	120
UEENEEH022B	Find and repair faults in remote control apparatus	60
UEENEEH023B	Find and repair faults in microwave heating apparatus	40
UEENEEH024B	Carry out repairs of predictable faults in audio components	40
UEENEEH027B	Commission commercial radio frequency (RF) transmission and reception systems	60

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UEENEEH028B	Install microwave and antennae and waveguides	60
UEENEEH042B	Troubleshoot oscillators	40
UEENEEH050B	Assemble and set up basic wired and wireless security systems	80
UEENEEH051B	Install large wired and wireless security systems	100
UEENEEH052B	Enter instructions and test basic wired and wireless security systems	40
UEENEEH054B	Program and commission commercial security alarm systems	60
UEENEEH055B	Program and commission commercial security access control systems	60
UEENEEH056B	Program and commission commercial security closed circuit television (CCTV) systems	60
UEENEEH061B	Position and terminate fire detection and warning system apparatus	40
UEENEEH062B	Verify compliance and functionality of fire protection installations	60
UEENEEH063B	Enter and verify programs in preparation for commissioning fire protection systems	40
UEENEEH064B	Commission commercial fire protection systems	40
UEENEEH065B	Find and repair faults in fire protection systems	40
UEENEEH066B	Fault find Microcontroller based hardware	40

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UEENEEH069B	Solve problems in electronic circuits	100
UEENEEH070B	Terminate and connect components, conductors, wiring and cables for electronic circuits	40
UEENEEH071B	Find and repair faults in television receivers	120
UEENEEH072C	Find and repair faults in communication systems	80
UEENEEH073B	Find and repair faults in professional audio reproduction components	120
UEENEEH074B	Find and repair faults in audio/video recording equipment	120
UEENEEH087B	Solve problems in musical equipment circuits	40
UEENEEI001B	Install and set up transducers and sensing devices	40
UEENEEI017B	Calibrate and test measuring instruments	40
UEENEEP008B	Conduct in-service safety testing of electrical cord assemblies and cord connected equipment	20
UEENEEP024A	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply	20

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

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