Australian Government

UEE50811 Diploma of Research and Development

Release 4

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Modification History

Release	Action	Core/Elective	Details	Points
2	Edit		Edit Name to reflect correct Unit title UEENEED104A Use engineering applications software on personal computers	40

4	Edit	Core	Correct title of UEENEEE101A - Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
4	Edit	Core	Correct title of UEENEEE124A - Compile and produce an energy sector detailed report	60
4	Edit	Core	Correct title of UEENEEK132A - Develop strategies to address environmental and sustainability issues in the energy sector	20
4	Edit	Elective	Correct title of UEENEED101A - Use computer applications relevant to a workplace	20
4	Edit	Elective	Correct title of UEENEED102A - Assemble, set-up and test computing devices	80
4	Edit	Elective	Correct title of UEENEED103A - Evaluate and modify object oriented code programs	40
4	Edit	Elective	Correct title of UEENEED112A - Support computer hardware and software for engineering applications	120
4	Edit	Elective	Correct title of UEENEED113A - Install and administer Unix based networked computers	80
4	Edit	Elective	Correct title of UEENEED115A - Administer computer networks	80
4	Edit	Elective	Correct title of UEENEED117A - Install and configure network systems for internetworking	120
4	Edit	Elective	Correct title of UEENEED124A - Integrate multiple computer operating systems on a client server local	80

			area network	
4	Edit	Elective	Correct title of UEENEED129A - Develop web pages for engineering applications	40
4	Edit	Elective	Correct title of UEENEED130A - Select, install, configure and test multimedia components	40
4	Edit	Elective	Correct title of UEENEED143A - Install and configure a client computer operating system and software	40
4	Edit	Elective	Correct title of UEENEED153A - Set up, configure and test biometric devices	40
4	Edit	Elective	Correct title of UEENEEE119A - Solve problems in multiple path extra low voltage (ELV) a.c. circuits	40
4	Edit	Elective	Correct title of UEENEEE123A - Solve basic problems electronic and digital equipment and circuits	80
4	Edit	Elective	Correct title of UEENEEE147A - Identify building techniques, methods and materials used in energy sector work activities	40
4	Edit	Elective	Correct title of UEENEEE192A - Produce detailed electrotechnology /utilities drawings using computer aided design equipment and software	60
4	Edit	Elective	Correct title of UEENEEG131A - Evaluate performance of low voltage electrical apparatus	40
4	Edit	Elective	Correct title of UEENEEH183A - Analyse the performance of wireless-based electronic - communication systems	40
4	Edit	Elective	Correct title of UEENEER006B - Contribute to the commercialisation of products/applications/ services	120

| E-OZ Training Standards

Description

Scope

This qualification provides competencies to assist professional in-planning, research and development of electrotechnology products and services.

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 880 points in accordance with the Elective Competency Standard Units table below.

Core Competency Standard Units All Core competency standard units to be achieved		**Weighting Points**
UEENEED104A	Use engineering applications software on personal computers	40
UEENEEE038B	Participate in development and follow a personal competency development plan	20
UEENEEE084A	Write specifications for electrotechnology engineering projects	40
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
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
UEENEEK132A	Develop strategies to address environmental and sustainability issues in the energy sector	20
UEENEER001B	Contribute to the planning of a research project	120
UEENEER002B	Contribute to the conduct of a research project	120
UEENEER003B	Contribute to the development of a Product/Application/Service	120
UEENEER004B	Contribute to the trial of a Product/Application/Service	120
Total points in core		**720**

Elective Competency Standard Units		
Complete Elective units to achieve a total of weighting of 880 points from the following groups:		
Group	**Minimum points**	**Maximum points**
A **Imported and Common Elective Units** 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 5. If units have not being assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.	0	270
B **Qualification Elective Units**	0	500
C **Qualification Elective Units**	0	240
D **Qualification Elective Units**	140	240

Group A – Imported and Common Elective Units You may complete units to a maximum weighting of 270		Weighting Points
BSBMGT502B	Manage people performance	70
BSBINM501A	Manage an information or knowledge management system	50
BSBMGT516C	Facilitate continuous improvement	60
BSBINN502A	Build and sustain an innovative work environment	50
BSBWOR502B	Ensure team effectiveness	60
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

UEENEED101A	Use 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
	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 5. If units have not being assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points. Note: For further information see Application of the NQC Flexibility Formula, UEE11 Electrotechnology Training Package, Version 1, Volume 1 Qualification Framework	Up to 270 points

Group B – Qualification Elective Units You may complete units to a maximum weighting of 500		Weighting Points
UEENEED102A	Assemble, set-up and test computing devices	80
UEENEED112A	Support computer hardware and software for engineering applications	120
UEENEED129A	Develop web pages for engineering applications	40
UEENEED130A	Select, install, configure and test multimedia components	40
UEENEED143A	Install and configure a client computer operating system and software	40
UEENEED146A	Set up and configure basic local area network (LAN)	80
UEENEEE104A	Solve problems in d.c. circuits	80
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	40
UEENEEE119A	Solve problems in multiple path extra low voltage (ELV) a.c. circuits	40
UEENEEE122A	Carry out preparatory energy sector work activities	60
UEENEEE123A	Solve basic problems electronic and digital equipment and circuits	80
UEENEEE130A	Provide solutions and report on routine electrotechnology problems	60
UEENEEE147A	Identify building techniques, methods and materials used in energy sector work activities	40
UEENEEE149A	Contribute to the operation of support plant and equipment used in electricity supply industry	40
UEENEEE151A	Transport apparatus, equipment and materials	60
UEENEEE190A	Prepare engineering drawings using manual drafting and CAD for electrotechnology/utilities applications	60
UEENEEE191A	Prepare electrotechnology/utilities drawings using manual drafting and CAD equipment and software	60

Group C – Qualification Elective Units You may complete units to a maximum weighting of 240		Weighting Points
UEENEED103A	Evaluate and modify object oriented code programs	40
UEENEED113A	Install and administer Unix based networked computers	80
UEENEED117A	Install and configure network systems for internetworking	120
UEENEED124A	Integrate multiple computer operating systems on a client server local area network	80
UEENEED153A	Set up, configure and test biometric devices	40
UEENEEE114A	Supervise and coordinate energy sector work activities	40
UEENEEE192A	Produce detailed electrotechnology /utilities drawings using computer aided design equipment and software	60
UEENEEI155A	Develop structured programs to control external devices	40

Group D – Qualification Elective Units You must complete units to a minimum weighting of 140 to a maximum of 240		Weighting Points
UEENEED115A	Administer computer networks	80
UEENEEE118A	Establish, maintain and evaluate energy sector OHS systems	60
UEENEEE126A	Provide solutions to basic engineering computational problems	60
UEENEEG131A	Evaluate performance of low voltage electrical apparatus	40
UEENEEH183A	Analyse the performance of wireless-based electronic - communication systems	40
UEENEER005B	Contribute to Intellectual Property Management	120

UEENEER006B	Contribute to the commercialisation of products/applications/ services	120

Note:

1. Prerequisite 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 prerequisite pathway for the progression to achieve particular competencies or qualification at a higher level.

3. Registered training organisations shall provide competency development advice in relation to any licensing requirements to practice that apply, or can contribute towards the qualification requirement, prior to establishing the competency development plan.

END OF QUALIFICATION

Custom Content Section

Not applicable.