



Australian Government

Department of Education, Employment and Workplace Relations

UEE41611 Certificate IV in Renewable Energy

Release: 1

UEE41611 Certificate IV in Renewable Energy

Modification History

Not applicable.

Description

Scope

This qualification provides competencies to select, install, commission, fault find and maintain multiple renewable energy sources and equipment for control of energy use.

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

Note: UEENEEK149A- Those holding a ‘Certificate III in Renewable Energy – ELV qualification or equivalent’ meet the requirements of this unit and its pre-requisite requirements.

Core Competency Standard Units		Weighting Points
All Core competency standard units to be achieved		
UEENEEE117A	Implement and monitor OHS policies and procedures	20
UEENEEE124A	Compile and produce an electrotechnology report	60
UEENEEE038B	Participate in development and follow a personal competency development plan	20
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, dismantle, assemble of utilities industry components	40
UEENEEE104A	Solve problems in d.c. circuits	80
UEENEEE105A	Fix and secure electrotechnology equipment	20
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	40
UEENEEE108A	Lay wiring/cabling and terminate accessories for ELV circuits	40
UEENEEE119A	Solve problems in multiple path a.c. circuits	40
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work	20
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60

UEENEEK123A	Carry out basic repairs to renewable energy apparatus	80
UEENEEK125A	Solve basic problems in photovoltaic energy apparatus and systems	20
UEENEEK127A	Diagnose and rectify faults in renewable energy control systems	60
UEENEEK128A	Solve problems in stand-alone renewable energy apparatus and systems	60
UEENEEK149A	Verify compliance and functionality of a renewable energy installations	40
UEENEEK145A	Implement and monitor energy sector policies and procedures for environmental and sustainable work practices	20
	Total points in core	740

Elective Competency Standard Units		
Complete Elective units to achieve a total of weighting of 540 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 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
B	Qualification Elective Units	0
C	Qualification Elective Units	220

Group A – Imported and Common Elective Units		Weighting Points
You may complete units to a maximum weighting of 220		
UEENEED001B	Maintain documentation	20
UEENEED002B	Source and purchase material/parts for installation or service jobs	20
UEENEED003B	Provide quotations for installation or service jobs	20
UEENEED010B	Deliver a service to customers	20
UEENEED101A	Use basic computer applications relevant to a electrotechnology/utilities workplace	20
UEENEEE009B	Comply with scheduled and preventative maintenance program processes	20
UEENEEE020B	Provide basic instruction in the use of electrotechnology apparatus	20
CPCCOHS1001A	Work safely in the construction industry	10
HLTCPR201B	Perform CPR	10

	<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>	<p>Up to 220 points</p>
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Group B – Qualification Elective Units		Weighting Points
You may complete units to a maximum weighting of 320		
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
UEENEEI150A	Develop, enter and verify discrete control programs for programmable controllers	60
UEENEEK107A	Conduct checks in the demand side use of remote area power supplies (RAPS)	40
UEENEEK108A	Plan periodic maintenance schedules of remote area power supplies (RAPS)	40
UEENEEK109A	Attend to breakdowns in remote area power supplies (RAPS)	20
UEENEEK117A	Maintain and repair facilities associated with remote area essential services	120
UEENEEK120A	Maintain operation of remote area power generation plant	120
UEENEEK124A	Solve basic problems in micro hydro systems	20
UEENEEK130A	Solve problems in wind energy conversion apparatus and systems	60
UEENEEK134A	Install standalone extra low voltage photovoltaic power systems	60
UEENEEK137A	Install, set up and maintain ELV micro-hydro systems rated up to 6.4 kW	20
UEENEEK143A	Install wind energy conversion systems rated to 10 kW for ELV stand-alone applications	20
UEENEPE024A	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply	20
UEENEPE025A	Attach cords, cables and plugs to electrical equipment for connection to 1000 Va.c. or 1500 Vd.c. supply	20

UEENEOP026A	Conduct in-service safety testing of electrical cord assemblies and cord connected appliances/equipment	20
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Group C – Qualification Elective Units		Weighting Points
You must complete units to a minimum weighting of 220 and to a maximum of 380		
UEENEOP004B	Prepare specifications for the supply of equipment and materials for electrotechnology projects	40
UEENEOP005B	Estimate electrotechnology projects	40
UEENEEE114A	Supervise and coordinate utilities /electrotechnology work activities	40
UEENEEE192A	Produce detailed electrotechnology/utilities drawings using computer aided design equipment and software	60
UEENEEI151A	Develop, enter and verify programs for industrial control systems using high level instructions	60
UEENEEI152A	Develop, enter and verify programs in Supervisory Control and Data Acquisition systems	60
UEENEOK110A	Coordinate maintenance of renewable energy (RE) apparatus and systems	20
UEENEOK135A	Design photovoltaic grid connected power supply systems	60

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.

END OF QUALIFICATION**Custom Content Section**

Not applicable.