



Australian Government

UEP40612 Certificate IV in Large Scale Wind Generation - Electrical

Release 2

UEP40612 Certificate IV in Large Scale Wind Generation - Electrical

Modification History

Not applicable.

Description

Scope

This qualification provides competencies to operate, test, fault find, alter, repair electrical equipment and systems associated with large scale wind power generation. It includes the requirements for an 'Electrical Fitter licence'.

Pathways Information

Not applicable.

Licensing/Regulatory Information

This qualifications include the requirements for an "Electrical Fitter Licence".

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:
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- 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 380 points in accordance with the Elective Competency Standard Units table below.

Core Competency Standard Units		Weighting Points
All Core competency standard units to be achieved		
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, dismantle, assemble utilities 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
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures	20
UEENEEE185A	Write work activity reports	20
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work	20
UEENEEE038B	Participate in competency development and follow a personal development plan	20
UEENEEG006A	Solve problems in single and three phase low voltage machines	80
UEENEEG033A	Solve problems in single and three phase low voltage electrical apparatus and circuits	60
UEENEEG063A	Arrange circuits, control and protection for general electrical installations	40
UEENEEG101A	Solve problems in electromagnetic devices and related	60

Core Competency Standard Units		Weighting Points
All Core competency standard units to be achieved		
	circuits	
UEENEEG102A	Solve problems in low voltage a.c. circuits	80
UEENEEG106A	Terminate cables, cords and accessories for low voltage circuits	40
UEENEEG108A	Trouble-shoot and repair faults in low voltage electrical apparatus and circuits	40
UEENEEG109A	Develop and connect electrical control circuits	80
UEENEEG199A	Conduct compliance and functional verification of electrical apparatus and existing circuits	40
UEENEEK145A	Implement and monitor energy sector policies and procedures for environmental and sustainable work practices	20
UEPMNT202A	Carry out routine work activities in an ESI large scale wind generation environment	20
UEPMNT371A	Maintain large scale wind turbine generators	60
Total points in core		900

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 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 in the ESI – Power Generation Training Package, their weighting will be 10 points.	0	60
B	Qualification Electives Units	0	120

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 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 in the ESI – Power Generation Training Package, their weighting will be 10 points.	0	60
C	Qualification Electives Units You may select all your elective units from this Group	260	380

Group A – Imported and Common Elective Units		Weighting Points
You may complete units to a maximum weighting of 60		
UEENEEC001B	Maintain documentation	20
UEENEEC010B	Deliver a service to customers	20
UEENEEED101A	Use computer applications relevant to a workplace	20
UEENEEEE009B	Comply with scheduled and preventative maintenance program processes	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 4. If units have not being assigned a weighting in the ESI Power Generation Training Package, their weighting will be 10 points. Note: For further information see Transition to NQC Packaging Rules for Flexibility, Page 10, UEP12 ESI Power Generation Training Package, Version 2, Part 1.1.00 Preliminary Information.	Up to 60 points

Group B – Qualification Elective Units You may complete units to a maximum weighting of 120		Weighting Points
UEENEED104A	Use engineering applications software	40
UEENEEI116A	Enter and verify operating instructions in microprocessor equipped devices	20
UEENEEI150A	Develop, enter and verify discrete control programs for programmable controllers	60
UEENEEF102A	Install and maintain cabling for multiple access to telecommunication services	120
UEENEEF104A	Install and modify performance data communication copper cabling	40
UEENEEF107A	Set up and configure the wireless capabilities of communications and data storage devices	40
UEENEEF108A	Select and arrange equipment for wireless communication networks	40
UEENEEF111A	Test, report and rectify faults in voice and data installations	40
UEENEEG110A	Find and repair faults in LV d.c. electrical apparatus and circuits	60
UEENEEG111A	Carry out basic repairs to electrical components and equipment	40
UEENEEG116A	Diagnose and rectify faults in traction lift systems	80
UEENEEG129A	Overhaul and repair major switchgear and controlgear	60
UEENEEG157A	Conduct electrical tests on LV electrical machines	40
UEENEEG159A	Conduct mechanical tests of LV electrical machines	40
UEENEEG164A	Repair and maintain mechanical components of electrical machines	40
UEENEEG165A	Maintain and service traction lifts systems and equipment	40

UEENEEH102A	Repair basic electronic apparatus faults by replacement of components	40
UEENEEH111A	Troubleshoot single phase input d.c. power supplies	40
UEENEEI101A	Use instrumentation drawings, specifications, standards and equipment manuals	40
UEENEEK142A	Apply environmental and sustainable procedures in the energy sector	20
UETTDRI44A	Perform high voltage field switching operation to a given schedule	40
UETTDREL16A	Working safely near live electrical apparatus	20
UEPOPS301B	Conduct Single Energy Source Isolation Procedures for Permit to Work	40
UEPOPS349B	Operate Local H.V. switchgear	40
UEPMNT369A	Monitor Climatic Conditions for Renewable Energy Power Generation	40
UEPMNT370A	Maintain and monitor wind farm civil assets	40

Group C – Qualification Elective Units		Weighting Points
You must complete at least 260 weighting points from this group. You may select all your elective units from this Group		
UEPMNT442A	Maintain wind turbine generator electrical systems	60
UEPMNT443A	Maintain wind turbine generator control systems	60
UEPMNT444A	Maintain wind turbine generator mechanical systems	60
UEPMNT445A	Diagnose and repair faults in large scale wind turbine generators	60
UEPMNT446A	Coordinate maintenance on a wind farm	60
UEPMNT447A	Diagnose and repair faults in wind turbine generator electrical systems	60

UEPMNT448A	Diagnose and repair faults in wind turbine generator control systems	60
UEPMNT449A	Diagnose and repair mechanical systems faults in wind turbine generators	60
UEPMNT450A	Test and commission wind turbine generators	60
UEPOPS402B	Conduct Multiple Energy Source Isolation Procedures for procedures for a Permit to Work	40
UEPOPS424B	Coordinate local HV networks	30
UEPOPS428B	Develop HV switching programs	20
UEPOPS456A	Perform switching to a switching program	30

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.