



Australian Government

UEE30611 Certificate III in Electrical Machine Repair

Release: 4

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Modification History

Release	Action	Core/Elective	Details	Points
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

4	Update	Elective	HLTAID001 - Provide cardiopulmonary resuscitation	10
4	Update	Elective	HLTAID003 - Provide first aid	10
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 UEENEEE102A - Fabricate, assemble and dismantle utilities industry components	40
4	Edit	Core	Correct title of UEENEEG111A - Carry out basic repairs to electrical components and equipment	40
4	Edit	Core	Correct title of UEENEEG153A - Rewind three phase low voltage induction machines	60
4	Edit	Core	Correct title of UEENEEG164A - Repair and maintain mechanical components of electrical machines	40
4	Edit	Core	Correct title of UEENEEK142A - Apply environmentally and sustainable procedures in the energy sector	20
4	Edit	Core	Correct title of UEENEEP015A - Disconnect - reconnect motors connected to low voltage installation wiring	60

4	Edit	Elective	Correct title of UEENEEG129A - Overhaul and repair major switchgear and controlgear	60
4	Edit	Elective	Correct title of UEENEEG159A - Conduct mechanical tests on electrical machines and components	40
4	Edit	Elective	Correct title of UEENEEG101A - Use computer applications relevant to a workplace	20

Description

Scope

This qualification provides competencies to overhaul and repair motor, transformer and control gear including rewinding

^ From 1 July 2022 the elective units HLT AID001, HLT AID003 must no longer be delivered and will be replaced in the Packaging Rules by the units HLT AID009, HLT AID011 - for more information see:

<https://asqa.gov.au/news-events/news/reminder-about-superseded-hlt-first-aid-units>

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 180 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		
UEENEEEC018B	Participate in electrical machine repair work and competency development activities	60
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, assemble and dismantle 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
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work	20
UEENEEG006A	Solve problems in single and three phase low voltage machines	80
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60
UEENEEG102A	Solve problems in low voltage a.c. circuits	80
UEENEEG106A	Terminate cables, cords and accessories for low voltage circuits	40
UEENEEG111A	Carry out basic repairs to electrical components and equipment	40
UEENEEG150A	Wind electrical coils	40
UEENEEG151A	Place and connect electrical coils	40
UEENEEG153A	Rewind three phase low voltage induction machines	60
UEENEEG157A	Conduct electrical tests on LV electrical machines	40

UEENEEG164A	Repair and maintain mechanical components of electrical machines	40
UEENEEK142A	Apply environmentally and sustainable procedures in the energy sector	20
UEENEEP015A	Disconnect - reconnect motors connected to low voltage installation wiring	60
Total points in core		880

Elective Competency Standard Units

Complete Elective units to achieve a total of weighting of 180 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 3. If units have not being assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.	0	60
B	Qualification Elective Units You may select all your elective units from this Group	120	180

Group A – Imported and Common Elective Units		Weighting Points
You may complete units to a maximum weighting of 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
UEENEEED101A	Use computer applications relevant to a	20

	workplace	
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
HLTAID001 ^ HLTAID009	Provide cardiopulmonary resuscitation Provide cardiopulmonary resuscitation (must be delivered from 1 July 2022)	10
HLTAID003 ^ HLTAID011	Provide first aid Provide First Aid (must be delivered from 1 July 2022)	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 3. 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 60 points

Group B – Qualification Elective Units Complete units to a minimum weighting of 120 You may select all your elective units from this Group		Weighting Points
UEENEEED104A	Use engineering applications software on personal computers	40
UEENEEEG129A	Overhaul and repair major switchgear and controlgear	60
UEENEEEG152A	Rewind single phase machines	40

UEENEEG154A	Rewind LV direct current machines	60
UEENEEG159A	Conduct mechanical tests on electrical machines and components	40
UEENEEI150A	Develop, enter and verify discrete control programs for programmable controllers	60
UEENEEJ151A	Service small electrical appliances and power tools	60
UEENEEP020A	Locate and rectify faults in low voltage motors using set procedures	20
UEENEEP024A	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply	20
UEENEEP025A	Attach cords, cables and plugs to electrical equipment for connection to 1000 Va.c. or 1500 Vd.c. supply	20

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.