



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **UEE30611 Certificate III in Electrical Machine Repair**

**Release: 1**

## **UEE30611 Certificate III in Electrical Machine Repair**

### **Modification History**

Not applicable.

### **Description**

#### **Scope**

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

### **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.

<b>Core Competency Standard Units</b>		<b>Weighting Points</b>
All Core competency standard units to be achieved		
UEENEEC018B	Participate in electrical machine repair work and competency development activities	60
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
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work	20
UEENEEO006A	Solve problems in single and three phase low voltage machines	80
UEENEEO101A	Solve problems in electromagnetic devices and related circuits	60
UEENEEO102A	Solve problems in low voltage a.c. circuits	80
UEENEEO106A	Terminate cables, cords and accessories for low voltage circuits	40
UEENEEO111A	Carry out repairs to electrical apparatus	40
UEENEEO150A	Wind electrical coils	40

UEENEEG151A	Place and connect electrical coils	40
UEENEEG153A	Rewind LV three phase induction machines rated for low voltage	60
UEENEEG157A	Conduct electrical tests on LV electrical machines	40
UEENEEG164A	Repair mechanical and electrical components of electrical machines	40
UEENEK142A	Apply environmental and sustainable procedures in the energy sector	20
UEENEEP015A	Disconnect / reconnect motors connected to low voltage installation wiring	60
<b>Total points in core</b>		<b>880</b>

### 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
<b>A</b>	<b>Imported and Common Elective Units</b> 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 been assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.	0	60
<b>B</b>	<b>Qualification Elective Units</b> 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		
UEENECC001B	Maintain documentation	20
UEENECC002B	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 basic computer applications relevant to a energy sector 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
HLTFA301C	Apply first aid	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

<b>Group B – Qualification Elective Units</b>		<b>Weighting Points</b>
Complete units to a minimum weighting of 120 You may select all your elective units from this Group		
UEENEED104A	Use software for engineering applications	40
UEENEEG129A	Overhaul and repair switchgear and controlgear	60
UEENEEG152A	Rewind single phase machines	40
UEENEEG154A	Rewind LV direct current machines	60
UEENEEG159A	Conduct mechanical tests of LV electrical machines	40
UEENEEI150A	Develop, enter and verify discrete control programs for programmable controllers	60
UEENEEJ151A	Service small electrical appliances and power tools	60
UEENEED020A	Locate and rectify faults in low voltage motors using set procedures	20
UEENEED024A	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply	20
UEENEED025A	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.