


Global Energy Training Solutions - RTO code: 41319

Qualification outline: UEE30820 Certificate III in Electrotechnology Electrician

	Term 1		Term 2		Term 3		Term 4	
Yr 1	Orientation UEECO0023 WH&S UEECD0007 2,2 days	Drawings UEECD0051 5 days	Workshop UEECD0019 5 days	Fixings UEECD0020 CPR HLTAID009 Live Rescue UETDRRF004 1,1,1 day	Series DC UEECD0046 4 days	Parallel DC UEECD0044 6 days	Cables UEEEL0023 3 days	Magnetism UEEEL0021 DC Machines UEEEL0019 3,3 days
Yr 2	AC Theory UEEEL0020 10 days		Transformers UEEEL0025 AC Machines UEEEL0024 2,4 days		Environmental UEERE0001 3 days	Power UEEEL0010 Heating UEEEL0008 Lighting UEEEL0009 2,2,2 days	Risk Assessment UEECD0016 Protection Methods UEEEL0003 1,5 days	Alternative Supplies UEEEL0047 Testing UEEEL0014 2,3 days
Yr 3	Cable Selection UEEEL0018 8 days		Control Circuits UEEEL0005 7 days		Equipment Install UEEEL0012 3 days	<div style="text-align: center;"> + Electives Electives are mostly evening courses with occasional day courses 120 points of electives required See electives on offer overleaf </div>		
Yr 4	Categories Cabling or practical Electrical theory Australian wiring rules Electives		Site visits From Magnetism UEEEL0021 onwards, site visits are required for verification of competency		Tutorials Tuesday, Wednesday and Thursday afternoons From 4 pm to 6:30 pm during term and some term breaks		Capstone UEEEL0039 8 days (over 3 weeks)	

1 st year	2 nd year	Capstone
<p>Orientation:</p> <ul style="list-style-type: none"> UEECO0023 - Participate in electrical work and competency development activities <p>WH&S:</p> <ul style="list-style-type: none"> UEECD0007 - Apply work health and safety regulations, codes and practices in the workplace <p>Drawings:</p> <ul style="list-style-type: none"> UEECD0051 - Use drawings, diagrams, schedules, standards, codes and specifications <p>Workshop:</p> <ul style="list-style-type: none"> UEECD0019 - Fabricate, assemble and dismantle utilities industry components <p>CPR:</p> <ul style="list-style-type: none"> HLTAID009 - Provide cardiopulmonary resuscitation <p>Live Rescue:</p> <ul style="list-style-type: none"> UETDRRF004 - Perform rescue from a live LV panel <p>Fixings:</p> <ul style="list-style-type: none"> UEECD0020 - Fix and secure electrotechnology equipment <p>Series DC:</p> <ul style="list-style-type: none"> UEECD0046 - Solve problems in single path circuits <p>Parallel DC:</p> <ul style="list-style-type: none"> UEECD0044 - Solve problems in multiple path circuits <p>Cables:</p> <ul style="list-style-type: none"> UEEEL0023 - Terminate cables, cords and accessories for low voltage circuits <p>Magnetism:</p> <ul style="list-style-type: none"> UEEEL0021 - Solve problems in magnetic and electromagnetic devices <p>DC Machines:</p> <ul style="list-style-type: none"> UEEEL0019 - Solve problems in direct current (d.c.) machines 	<p>AC Theory:</p> <ul style="list-style-type: none"> UEEEL0020 - Solve problems in low voltage a.c. circuits <p>Transformers:</p> <ul style="list-style-type: none"> UEEEL0025 - Test and connect transformers <p>AC Machines:</p> <ul style="list-style-type: none"> UEEEL0024 - Test and connect alternating current (a.c.) rotating machines <p>Environmental:</p> <ul style="list-style-type: none"> UEERE0001 - Apply environmentally and sustainable procedures in the energy sector <p>Power:</p> <ul style="list-style-type: none"> UEEEL0010 - Evaluate and modify low voltage socket outlets circuits <p>Heating:</p> <ul style="list-style-type: none"> UEEEL0008 - Evaluate and modify low voltage heating equipment and controls <p>Lighting:</p> <ul style="list-style-type: none"> UEEEL0009 - Evaluate and modify low voltage lighting circuits, equipment and controls <p>Risk Assessment:</p> <ul style="list-style-type: none"> UEECD0016 - Document and apply measures to control WHS risks associated with electrotechnology work <p>Protection Methods:</p> <ul style="list-style-type: none"> UEEEL0003 - Arrange circuits, control and protection for electrical installations <p>Alternative Supplies:</p> <ul style="list-style-type: none"> UEEEL0047 - Identify, shut down and restart systems with alternate supplies <p>Testing:</p> <ul style="list-style-type: none"> UEEEL0014 - Isolate, test and troubleshoot low voltage electrical circuits 	<p>Capstone:</p> <ul style="list-style-type: none"> UEEEL0039 - Design, install and verify compliance and functionality of general electrical installations
 <p>NATIONALLY RECOGNISED TRAINING</p> <p>RTO code: 41319</p> <p>Document version 1.4</p>	<p style="text-align: center;">3rd year</p> <p>Cable Selection:</p> <ul style="list-style-type: none"> UEEEL0018 - Select wiring systems and select cables for low voltage electrical installations <p>Control Circuits:</p> <ul style="list-style-type: none"> UEEEL0005 - Develop and connect electrical control circuits <p>Equipment Install:</p> <ul style="list-style-type: none"> UEEEL0012 - Install low voltage wiring, appliances, switchgear and associated accessories 	<p style="text-align: center;">Electives and Stand-alone courses</p> <p>Solar Basics: – 20 points</p> <ul style="list-style-type: none"> UEERE0022 - Solve basic problems in photovoltaic energy apparatus and systems <p>Solar Install: – 40 points</p> <ul style="list-style-type: none"> UEERE0016 - Install, configure and commission LV grid-connected photovoltaic power systems <p>Solar Design: – 40 points</p> <ul style="list-style-type: none"> UEERE0011 - Design grid-connected photovoltaic power supply systems <p>Solar Safety: – 20 points</p> <ul style="list-style-type: none"> UEERE0049 - Apply safe work practices in the rooftop solar industry <p>Battery Install: – 60 points</p> <ul style="list-style-type: none"> UEERE4001 - Install, maintain and fault find battery storage systems for grid-connected photovoltaic systems <p>Battery Design: – 80 points</p> <ul style="list-style-type: none"> UEERE5001 - Design battery storage systems for grid-connected photovoltaic systems <p>ACMA: – 80 points</p> <ul style="list-style-type: none"> UEEDV0005 - Install and maintain cabling for multiple access to telecommunication services <p>Structured and Coax: – 40 points</p> <ul style="list-style-type: none"> UEEDV0008 - Install, modify and verify coaxial and structured communication copper cabling <p>Fibre: – 40 points</p> <ul style="list-style-type: none"> UEEDV0006 - Install and modify optical fibre performance data communication cabling <p>Notes:</p> <ul style="list-style-type: none"> Additional fees apply for apprenticeship training over 120 points Prerequisites apply