

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 CPR HLTAID001 Live Rescue UETTDRRF06 2,2,1,1 days	Workshop UEECD0019 5 days	Fixings UEECD0020 Drawings UEECD0051 1,5 days	Series DC UEECD0046 5 days	Parallel DC UEECD0044 5 days	Cables UEEEL0023 3 days	Magnetism UEEEL0021 DC Machines UEEEL0019 4,2 days	
Yr 2	AC Theory UEEEL0020 10 days		Transformers UEEEL0025 AC Machines UEEEL0024 2,4 days		Environmen- tal 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>+ Electives</div> Electives are mostly evening courses with occasional day courses 120 points of electives required See electives on offer overleaf				
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
Orientation: <ul style="list-style-type: none"> UEECO0023 - Participate in electrical work and competency development activities WH&S: <ul style="list-style-type: none"> UEECD0007 - Apply work health and safety regulations, codes and practices in the workplace CPR: <ul style="list-style-type: none"> HLTAID001 - Provide cardiopulmonary resuscitation Live Rescue: <ul style="list-style-type: none"> UETDTRRF06 - Perform rescue from a live LV panel Workshop: <ul style="list-style-type: none"> UEECD0019 - Fabricate, assemble and dismantle utilities industry components Fixings: <ul style="list-style-type: none"> UEECD0020 - Fix and secure electrotechnology equipment Drawings: <ul style="list-style-type: none"> UEECD0051 - Use drawings, diagrams, schedules, standards, codes and specifications Series DC: <ul style="list-style-type: none"> UEECD0046 - Solve problems in single path circuits Parallel DC: <ul style="list-style-type: none"> UEECD0044 - Solve problems in multiple path circuits Cables: <ul style="list-style-type: none"> UEEEL0023 - Terminate cables, cords and accessories for low voltage circuits Magnetism: <ul style="list-style-type: none"> UEEEL0021 - Solve problems in magnetic and electromagnetic devices DC Machines: <ul style="list-style-type: none"> UEEEL0019 - Solve problems in direct current (d.c.) machines 	AC Theory: <ul style="list-style-type: none"> UEEEL0020 - Solve problems in low voltage a.c. circuits Transformers: <ul style="list-style-type: none"> UEEEL0025 - Test and connect transformers AC Machines: <ul style="list-style-type: none"> UEEEL0024 - Test and connect alternating current (a.c.) rotating machines Environmental: <ul style="list-style-type: none"> UEERE0001 - Apply environmentally and sustainable procedures in the energy sector Power: <ul style="list-style-type: none"> UEEEL0010 - Evaluate and modify low voltage socket outlets circuits Heating: <ul style="list-style-type: none"> UEEEL0008 - Evaluate and modify low voltage heating equipment and controls Lighting: <ul style="list-style-type: none"> UEEEL0009 - Evaluate and modify low voltage lighting circuits, equipment and controls Risk Assessment: <ul style="list-style-type: none"> UEECD0016 - Document and apply measures to control WHS risks associated with electrotechnology work Protection Methods: <ul style="list-style-type: none"> UEEEL0003 - Arrange circuits, control and protection for electrical installations Alternative Supplies: <ul style="list-style-type: none"> UEEEL0047 - Identify, shut down and restart systems with alternate supplies Testing: <ul style="list-style-type: none"> UEEEL0014 - Isolate, test and troubleshoot low voltage electrical circuits 	Capstone: <ul style="list-style-type: none"> UEEEL0039 - Design, install and verify compliance and functionality of general electrical installations
		Electives and Stand-alone courses
		Solar Basics: – 20 points <ul style="list-style-type: none"> UEERE0022 - Solve basic problems in photovoltaic energy apparatus and systems Solar Install: – 40 points <ul style="list-style-type: none"> UEERE0016 - Install, configure and commission LV grid-connected photovoltaic power systems Solar Design: – 40 points <ul style="list-style-type: none"> UEERE0011 - Design grid-connected photovoltaic power supply systems Battery Install: – 60 points <ul style="list-style-type: none"> UEERE4001 - Install, maintain and fault find battery storage systems for grid-connected photovoltaic systems Battery Design: – 80 points <ul style="list-style-type: none"> UEERE5001 - Design battery storage systems for grid-connected photovoltaic systems Interval Metering: – 20 points <ul style="list-style-type: none"> UEEEL0013 - Install, set up and commission interval metering ACMA: – 80 points <ul style="list-style-type: none"> UEEDV0005 - Install and maintain cabling for multiple access to telecommunication services Structured and Coax: – 40 points <ul style="list-style-type: none"> UEEDV0008 - Install, modify and verify coaxial and structured communication copper cabling Fibre: – 40 points <ul style="list-style-type: none"> UEEDV0006 - Install and modify optical fibre performance data communication cabling PLCs: – 60 points <ul style="list-style-type: none"> UEEIC0013 - Develop, enter and verify discrete control programs for programmable controllers
		Credit Transfer (If previously completed) Examples: <ul style="list-style-type: none"> CPCCWHS1001 - White Card – 10 points HLTAID011 - Provide first aid – 10 points RIIWHS204E - Work safely at heights – 20 points
		Note: Additional fees apply for apprenticeship training over 120 points
	3rd year	
	Cable Selection: <ul style="list-style-type: none"> UEEEL0018 - Select wiring systems and select cables for low voltage electrical installations Control Circuits: <ul style="list-style-type: none"> UEEEL0005 - Develop and connect electrical control circuits Equipment Install: <ul style="list-style-type: none"> UEEEL0012 - Install low voltage wiring, appliances, switchgear and associated accessories 	



RTO code: 41319

Document version 1.0