## Qualification outline: UEE30820 - Certificate III in Electrotechnology Electrician Global Energy Training Solutions - RTO code: 41319

		Term 1		Term 2				נ	Ferm 3			נ	Ferm 4
Yr 1	Orientation UEECO0023 1 day WH&S UEECD0007 2 days	<b>Workshop</b> UEECD0019 5 days		iwings ECD0051 ays	Fixings UEECD( 1 day CPR HLTAID 1/2 day Live Res UETDRI 1/2 day	009 5 <b>cue</b>	<b>Series DC</b> UEECD0046 4 days	U	<b>Parallel DC</b> UEECD0044 5 days		<b>Cables</b> UEEEL0023 3 days	UEI 3 da <b>DC</b>	Machines EEL0019
Yr 2	AC Theory UEEEL0020 10 days			Transformers UEEEL0025 2 days AC Machines UEEEL0024 4 days	<b>Enviro</b> ntal UEER 2 days	E0001	UEEEL0010 3 days	UEI 2 da <b>Lig</b> l	<b>hting</b> EEL0009	Risk Ass UEECD0 1 day Protectio UEEEL0 5 days	016 on Methods		Alternative Supplies UEEEL0047 2 days Testing UEEEL0014 3 days
Yr 3	<b>Cable Selection</b> UEEEL0018 8 days		<b>Control C</b> UEEEL00 7 days		Equipmo Install UEEEL0 3 days		Elect	+ Electives Electives are mostly evening courses with occasional day courses 120 points of electives required See electives on offer overleaf			al day courses		
Yr 4	Cablin Elect Australi	Electrical theoryonwards, site visits are required forAustralian wiring rulesverification of competency			<b>Tutorials</b> Tuesdays, Wednesdays and Thursdays 3:30 to 6:30 pm Mondays and Friday 3:30 to 5 pm (Excluding Public Holidays, all of January and the last week in December)				pm 8 days (c	<b>Capstone</b> UEEEL0039 8 days (over 3 weeks)			

1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	Capstone			
Orientation: <ul> <li>UEECO0023 - Participate in electrical work and competency development activities</li> </ul>	AC Theory: • UEEEL0020 - Solve problems in low voltage a.c. circuits Transformers:	<ul> <li>Cable Selection:</li> <li>UEEEL0018 - Select wiring systems and select cables for low voltage electrical installations</li> </ul>	Capstone: • UEEEL0039 - Design, install and verify compliance and functionality of general electrical installations			
<ul> <li>WH&amp;S:</li> <li>UEECD0007 - Apply work health and safety regulations, codes and practices in the workplace</li> <li>Workshop:</li> <li>UEECD0019 - Fabricate, assemble</li> </ul>	<ul> <li>UEEEL0025 - Test and connect transformers</li> <li>AC Machines:         <ul> <li>UEEEL0024 - Test and connect alternating current (a.c.) rotating machines</li> </ul> </li> </ul>	Control Circuits: <ul> <li>UEEEL0005 - Develop and connect electrical control circuits</li> </ul> <li>Equipment Install: <ul> <li>UEEEL0012 - Install low voltage</li> </ul></li>	Stand-alone courses         Solar Design: <ul> <li>UEERE0061 - Design grid-connected photovoltaic power supply systems</li> </ul> <li>Battery Install: (30 points)         <ul> <li>UEERE0078 - Install battery storage to power conversion equipment</li> <li>Battery Inverter Install: (30 points)                 <ul> <li>UEERE0077 - Install battery storage equipment power conversion equipment to grid</li> </ul> </li> </ul> </li> <li>UEERE0060 - Design grid-connected battery storage systems</li> <li>Fibre:                 <ul> <li>UEEDV0006 - Install and modify optical fibre performance data communication cabling</li> </ul> </li>			
and dismantle utilities industry components	Environmental: • UEERE0001 - Apply	wiring, appliances, switchgear and associated accessories				
Drawings: • UEECD0051 - Use drawings, diagrams, schedules, standards, codes and specifications	environmentally and sustainable procedures in the energy sector <b>Power:</b>	Elective option 1 – Solar (110/120 elective points) (10 points as Credit Transfer or from Batteries)				
<ul> <li>Fixings: <ul> <li>UEECD0020 - Fix and secure electrotechnology equipment</li> </ul> </li> <li>CPR: <ul> <li>HLTAID009 - Provide cardiopulmonary resuscitation</li> </ul> </li> <li>Live Rescue: <ul> <li>UETDRRF004 - Perform rescue from a live LV panel</li> </ul> </li> </ul>	<ul> <li>UEEEL0010 - Evaluate and modify low voltage socket outlets circuits</li> <li>Heating:         <ul> <li>UEEEL0008 - Evaluate and modify low voltage heating equipment and controls</li> </ul> </li> <li>Lighting:         <ul> <li>UEEEL0009 - Evaluate and modify low voltage lighting circuits, equipment and controls</li> </ul> </li> </ul>	<ul> <li>Grid Connect Site Survey: (30 points)         <ul> <li>UEERE0054 - Conduct site survey for grid-connected photovoltaic and battery storage systems</li> </ul> </li> <li>Solar Install: (30 points)         <ul> <li>UEERE0081 - Install photovoltaic systems to power conversion equipment</li> </ul> </li> <li>Solar Inverter Install: (30 points)         <ul> <li>UEERE0080 - Install photovoltaic</li> </ul> </li> </ul>				
<ul> <li>Series DC:         <ul> <li>UEECD0046 - Solve problems in single path circuits</li> </ul> </li> <li>Parallel DC:         <ul> <li>UEECD0044 - Solve problems in multiple path circuits</li> </ul> </li> </ul>	Risk Assessment: • UEECD0016 - Document and apply measures to control WHS risks associated with electrotechnology work	<ul> <li>OEEEE0000 - Instan photovoltate power conversion equipment to grid</li> <li>Solar Safety: (20 points)         <ul> <li>UEERE0049 - Apply safe work practices in the rooftop solar industry</li> </ul> </li> </ul>	<ul> <li>Additional fees apply for training over 120 elective points</li> <li>Prerequisites apply</li> <li>Acknowledgment: Australian</li> <li>Apprenticeships in the ACT are funded by</li> </ul>			
Cables: • UEEEL0023 - Terminate cables, cords and accessories for low voltage circuits	<ul> <li>Protection Methods:</li> <li>UEEEL0003 - Arrange circuits, control and protection for electrical installations</li> <li>Alternative Supplies:</li> </ul>	Elective option 2 – Telecommunications (120/120 elective points) ACMA: (80 points) • UEEDV0005 - Install and maintain	the ACT and Australian Governments.			
<ul> <li>Magnetism:         <ul> <li>UEEEL0021 - Solve problems in magnetic and electromagnetic devices</li> </ul> </li> <li>DC Machines:         <ul> <li>UEEEL0019 - Solve problems in direct current (d.c.) machines</li> </ul> </li> </ul>	<ul> <li>UEEEL0047 - Identify, shut down and restart systems with alternate supplies</li> <li>Testing:         <ul> <li>UEEEL0014 - Isolate, test and troubleshoot low voltage electrical circuits</li> </ul> </li> </ul>	<ul> <li>cabling for multiple access to telecommunication services</li> <li>Structured &amp; Coax: (40 points)</li> <li>UEEDV0008 - Install, modify and verify coaxial and structured communication copper cabling</li> </ul>	RTO code: 41319 UEE30820_Qualification_Outline_V3.0			