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

	Term 1		Term 2		Term 3		Term 4	
Yr 1	**Orientation** UEECO0023 1 day **WH&S** UEECD0007 2 days	**Workshop** UEECD0019 5 days	**Drawings** UEECD0051 5 days	**Fixings** UEECD0020 1 day **CPR** HLTAID009 1/2 day **Live Rescue** UETDRRF004 1/2 day	**Series DC** UEECD0046 4 days	**Parallel DC** UEECD0044 6 days	**Cables** UEEEL0023 3 days	**Magnetism** UEEEL0021 3 days **DC Machines** UEEEL0019 3 days
Yr 2	**AC Theory** UEEEL0020 10 days		**Transformers** UEEEL0025 2 days **AC Machines** UEEEL0024 4 days		**Environme-ntal** UEERE0001 2 days	**Power** UEEEL0010 2 days **Heating** UEEEL0008 2 days **Lighting** UEEEL0009 2 days	**Risk Assessment** UEECD0016 1 day **Protection Methods** UEEEL0003 5 days	**Alternative Supplies** UEEEL0047 2 days **Testing** UEEEL0014 3 days
Yr 3	**Cable Selection** UEEEL0018 8 days	**Control Circuits** UEEEL0005 7 days	**Equipment Install** UEEEL0012 3 days	**+ Electives** **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)	

1st year	2nd year	3rd year	Capstone
Orientation: • UEECO0023 - Participate in electrical work and competency development activities **WH&S:** • UEECD0007 - Apply work health and safety regulations, codes and practices in the workplace **Workshop:** • UEECD0019 - Fabricate, assemble and dismantle utilities industry components **Drawings:** • UEECD0051 - Use drawings, diagrams, schedules, standards, codes and specifications **Fixings:** • UEECD0020 - Fix and secure electrotechnology equipment **CPR:** • HLTAID009 - Provide cardiopulmonary resuscitation **Live Rescue:** • UETDRRF004 - Perform rescue from a live LV panel	**AC Theory:** • UEEEL0020 - Solve problems in low voltage a.c. circuits **Transformers:** • UEEEL0025 - Test and connect transformers **AC Machines:** • UEEEL0024 - Test and connect alternating current (a.c.) rotating machines	**Cable Selection:** • UEEEL0018 - Select wiring systems and select cables for low voltage electrical installations	**Capstone:** • UEEEL0039 - Design, install and verify compliance and functionality of general electrical installations
Series DC: • UEECD0046 - Solve problems in single path circuits **Parallel DC:** • UEECD0044 - Solve problems in multiple path circuits	**Environmental:** • UEERE0001 - Apply environmentally and sustainable procedures in the energy sector **Power:** • UEEEL0010 - Evaluate and modify low voltage socket outlets circuits **Heating:** • UEEEL0008 - Evaluate and modify low voltage heating equipment and controls **Lighting:** • UEEEL0009 - Evaluate and modify low voltage lighting circuits, equipment and controls	**Control Circuits:** • UEEEL0005 - Develop and connect electrical control circuits	**Stand-alone courses**
Cables: • UEEEL0023 - Terminate cables, cords and accessories for low voltage circuits	**Risk Assessment:** • UEECD0016 - Document and apply measures to control WHS risks associated with electrotechnology work **Protection Methods:** • UEEEL0003 - Arrange circuits, control and protection for electrical installations **Alternative Supplies:** • UEEEL0047 - Identify, shut down and restart systems with alternate supplies **Testing:** • UEEEL0014 - Isolate, test and troubleshoot low voltage electrical circuits	**Equipment Install:** • UEEEL0012 - Install low voltage wiring, appliances, switchgear and associated accessories	**Solar Design:** • UEERE0061 - Design grid-connected photovoltaic power supply systems **Battery Install: (30 points)** • UEERE0078 - Install battery storage to power conversion equipment **Battery Inverter Install: (30 points)** • UEERE0077 - Install battery storage equipment power conversion equipment to grid **Battery Design:** • UEERE0060 - Design grid-connected battery storage systems **Fibre:** • UEEDV0006 - Install and modify optical fibre performance data communication cabling **Notes:** • Additional fees apply for apprenticeship training over 120 or 130 points • Prerequisites apply
Magnetism: • UEEEL0021 - Solve problems in magnetic and electromagnetic devices **DC Machines:** • UEEEL0019 - Solve problems in direct current (d.c.) machines		**Elective option 1 – Renewables (130/120 elective points)** **Solar** **Grid Connect Site Survey: (30 points)** • UEERE0054 - Conduct site survey for grid-connected photovoltaic and battery storage systems **Solar Install: (30 points)** • UEERE0081 - Install photovoltaic systems to power conversion equipment **Solar Inverter Install: (30 points)** • UEERE0080 - Install photovoltaic power conversion equipment to grid **Smart Control: (40 points)** • UEECD0028 - Plan an integrated cabling installation system **Elective option 2 – Telecommunications (120/120 elective points)** **Telecommunications** **ACMA: (80 points)** • UEEDV0005 - Install and maintain cabling for multiple access to telecommunication services **Structured & Coax: (40 points)** • UEEDV0008 - Install, modify and verify coaxial and structured communication copper cabling	Acknowledgment: Australian Apprenticeships in the ACT are funded by the ACT and Australian Governments.  RTO code: 41319 UEE30820_Qualification_Outline_V2.3