

# 2021 Course Information



## 22499VIC CERTIFICATE II in ELECTROTECHNOLOGY STUDIES (PRE-VOCATIONAL)

### Description of Course

This course provides both theoretical and practical training that is linked directly to the work that Electrotechnology related technicians undertake. A state accredited curriculum that offers students the opportunity to develop their skills and knowledge across a range of electrical sectors.

### Activities / Tasks

Your Electrotechnology course will include an introduction to the industry and workplace safety. You will learn from industry professionals how to:

- Use basic tools within the industry
- Electrical wiring and equipment used within the industry
- Problem solve to fix and secure electrotechnology equipment
- Attach cords and plugs to electrical equipment for connection to a single phase 230-volt supply

### You will cover topics such as:

- Basic electrical/electronic theory
- Renewable energy concepts and projects
- Electrical wiring theory, regulations, and practice
- Electric motor theory and practice
- Integrated work placement

### Assessment

Assessment is conducted using a combination of project based practical tasks, theory and tests. The assessment of your overall competence at this certificate level will be undertaken by a qualified assessor and your competence judged using all of these tasks. Students will be given a fair and adequate assessment process that include the option of an assessment re-sit.

### Pathways

Students who complete the program will have enhanced employment prospects which may lead to employment in the electrical industry or further education and training.

Participants who successfully complete this program may receive credit toward an apprenticeship in Electrotechnology. The most common pathway is credit towards the Certificate III in Electrotechnology Systems Electrician. Other pathways include:

- Certificate III in Electrical Electrician
- Certificate III in Engineering – Industrial Electrician
- Certificate IV in Electrotechnology – Systems Electrician

### Career Opportunities

With additional training and experience possible future career opportunities may include work in the following areas/sectors:

- Electrotechnology Assembler
- Electrical Instrumentation Technician
- Electrical Fitter
- Electrotechnology Trainer

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## COURSE CONTENT



**First Year Students:** Wednesday 8.00am – 12.00pm and 12.30pm – 4.30pm

**Second Year Students:** Friday 8.00am – 12.00pm and 12.30pm – 4.30pm

Code	Unit of Competency	Nominal Hours
<b>FIRST YEAR</b>		
HLTAID003	Provide basic emergency life support	18
UEENEEE101A	Apply occupational health and safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components	40
CPCCOHS1001A	Work safely in the construction industry	6
UEENEEE105A	Fix and secure Electrotechnology equipment	20
UEENEEE103A	Solve problems in ELV single path circuits	40
VU22333	Perform immediate engineering computations	40
UEENEEJ104A	Establish the basic operating conditions of air conditioning units	20
<b>FIRST YEAR TOTAL HOURS</b>		<b>204</b>
<b>SECOND YEAR</b>		
VU21544	Install a sustainable extra low voltage energy power system	30
VU22670	Provide an overview of the Electrotechnology industry	30
VU22671	Use test instruments in the Electrotechnology industry	20
VU22672	Carry out basic Electrotechnology project	40
VU22673	Carry out basic network cabling for extra low voltage (ELV) equipment and devices	30
UEENEEP024A	Attach cords and plugs to electrical equipment for connection to a single phase 230 volt supply	20
UEENEEE141A	Use of routine equipment/plant/technologies in an energy sector environment	60
UEENEEP026A	Conduct in service safety testing of electrical cord connected equipment and core assemblies	20
<b>SECOND YEAR TOTAL HOURS</b>		<b>250</b>
<b>Total Nominal Hours</b>		<b>454</b>

### Length of the Course

This course runs for two years.

### Auspicing Registered Training Organisation

Box Hill Institute ( RTO No.4687)

### Enrolment Process

Students must apply through their VET coordinator at their home school and complete the enrolment form at the ONTTC Enrolment/Information evening. **Parents must also complete the online enrolment form for Box Hill Institute before a student can be accepted into the course.**