

Course Flyer

UEE22011 (CRICOS code 094824D) Certificate II in Electrotechnology (Career Start)



Course Description



This qualification covers competencies for work entry program providing grounding in safety and basic skills and knowledge for work in any electrotechnology discipline.

The duration of the UEE22011 Certificate II in Electrotechnology (Career Start) is 20 contact hours per week for 30 weeks.

Job Roles and Career Pathways

Not applicable.

Entry Requirements

Course entry

There are no formal course entry requirements into this qualification. International students must meet visa, financials (fees/relevant costs) and English language proficiency requirements.

RTO Entry

This course is recommended for students who wish to enter the industry. Students are not required to have knowledge and skill base in a variety of Electrotechnology.

Students are required to have language, literacy and numeracy skills as required to undertake these workplace functions.

Intake

Course start dates are as listed on the RTO training schedule.

Further Learning

The UEE22011 Certificate II in Electrotechnology (Career Start) is a prerequisite for several specialised courses in the Electrotechnology Industry that will help you to further your career.

Students who complete the UEE22011 Certificate II in Electrotechnology (Career Start) can continue their studies by advancing to the UEE30811 Certificate III in Electrotechnology.



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Course Structure

This course comprises all the required 6 Core competency units to a total of 220 points and elective unit stream to achieve a total weighting of 140 points in accordance with the Elective Competency Standard Units table listed below.

Core units

UEENEEE101A

Apply Occupational Health and Safety regulations, codes and practices in the workplace

UEENEEE104A

Solve problems in d.c. circuits

UEENEEE141A

Use of routine equipment/plant/technologies in an energy sector environment

UEENEEE148A

Carry out routine work activities in an energy sector environment

UEENEEE179A

Identify and select components, accessories and materials for energy sector work activities

UEENEEK142A

Apply environmentally and sustainable procedures in the energy sector

(6 Units – Total 220 points)

Elective units

Group A electives (maximum 60 points)

UEENEEC001B

Maintain documentation

UEENEEC010B

Deliver a service to customers

UEENEEE020B

Provide basic instruction in the use of electrotechnology apparatus

Group B Electives: (a minimum of 80 points and maximum of 140 points)

UEENEEE102A

Fabricate, assemble and dismantle utilities industry components

UEENEEE105A

Fix and secure electrotechnology equipment

UEENEEP024A

Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply

Core Units Syllabus

(20 Units – Total 920 points)

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Subject	Outcome (Required Skills & Knowledge)
<p>UEENEEE101A - Apply Occupational health Safety regulations, codes and practices in the workplace</p>	<p>Understand the basic legal requirements covering occupational health and safety in the workplace</p> <p>Understand the work environment</p> <p>Understand manual Handling</p> <p>Understand chemicals in the workplace</p> <p>Understand working at heights</p> <p>Understand confined spaces</p> <p>Understand physical and psychological hazards</p> <p>Understand working safely with electricity</p> <p>Understand life support - CPR in the workplace</p>
<p>UEENEEE104A - Solve problems in d.c. circuits</p>	<p>Understand Basic electrical concepts</p> <p>Understand Basic electrical circuit</p> <p>Understand Ohm's Law</p> <p>Understand Electrical power</p> <p>Understand Effects of electrical current</p> <p>Understand EMF sources energy sources and conversion electrical energy</p> <p>Understand Resistors</p> <p>Understand Series circuits</p> <p>Understand Parallel circuits</p> <p>Understand Series/parallel circuits</p> <p>Understand Factors affecting resistance</p> <p>Understand Effects of meters in a circuit</p> <p>Understand Resistance measurement</p> <p>Understand Capacitors and Capacitance</p> <p>Understand Capacitors in Series and Parallel</p>
<p>UEENEEE141A - Use of routine equipment/plant/technologies in an energy sector environment</p>	<p>Understand electrical concepts</p> <p>Understand electrical supply and distribution within a building or premises</p> <p>Understand arrangement of circuits</p> <p>Understand protection for safety requirements and their practice</p> <p>Understand difference between alternating and direct current</p> <p>Understand measurement and calculation of voltage, current, resistance and power in practical circuits.</p> <p>Understand concepts and applications of magnetism and electromagnetic induction</p> <p>Understand transformer operating principles and their application</p> <p>Understand hazards associated with electrical systems and apparatus.</p>

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UEENEEE148A - Carry out routine work activities in an energy sector environment	Understand energy sector vocations Understand career paths in energy sector Understand training in energy sector vocations Understand industry Organisations Understand qualification Requirements Understand Policies and Practices in energy sector industry Understand job application Understand job interview
UEENEEE179A - Identify and select components, accessories and materials for energy sector work activities	Understand part and component identification Understand information about parts and components Understand ordering procedures Understand receiving/dispatching
UEENEE142A- Apply environmentally and sustainable procedures in the energy sector	Understand sustainable work practices Understand techniques for reducing carbon produced energy and hence greenhouse gases

Elective units (group A) – Syllabus (maximum 60 points)

Subject	Outcome (Required Skills & Knowledge)
UEENEEC001B - Maintain documentation	Understand enterprise communication methods Understand work activities records Understand using basic computers and applications
UEENEEC010B - Deliver a service to customers	Understand enterprise communication methods Understand work activities records Understand problem solving concepts and techniques Understand enterprise customer relations protocols Understand enterprise quality management system Understand instructing users in the use of specific items of equipment and systems
UEENEEE020B - Provide basic instruction in the use of electrotechnology apparatus	Understand methods for evaluating user needs - how equipment is used efficiently and safely and identifying wear and tear and damage to the equipment that requires repairing Understand basic instruction methods - appropriate to the culture of the users and the equipment for which instruction is given Understand methods for evaluating user's ability use equipment correctly Understand communicating with personnel Understand communicating with suppliers Understand communicating with customers Understand purpose and extent of maintaining work activities records in an enterprise

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	Understand customer relations
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Elective units (group B) – Syllabus (a minimum of 80 points)

Subject	Outcome (Required Skills & Knowledge)
UEENEEE102A - Fabricate, assemble and dismantle utilities industry components	Understand Mechanical drawing interpretation and sketching Understand Workshop planning and materials Understand Measuring and marking out Understand Holding and cutting Understand Drills and drilling Understand Tapping and threading Understand General Hand Tools Understand Joining techniques Understand Portable electric power tools Understand Sheet metal work Understand Low tolerance measurement Understand Dismantling and assembly techniques
UEENEEE105A - Fix and secure Electrotechnology equipment	Understand device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to hollow walls Understand device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to solid walls Understand device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to metal fixing Understand securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories using fixing adhesives and tapes
UEENEEP024A - Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply	Understand Safety Understand The basic electrical circuit Understand Relationships in an electrical circuit Understand Test Equipment - resistance measurement Understand Selection of flexible cords and plugs to suit given applications Understand Connecting flexible cords and plugs to appliances Understand Testing Understand Producing documentation and reports

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Volume of Learning

The volume of learning allocated to a qualification will vary depending on the level of the qualification and the experience and competency of the student. Students must complete the allocated hours for the qualification they are undertaking in order to achieve competency. If the student applies for RPL or Credit Transfer, the volume of learning may be reduced. The hours that make up the volume of learning for UEE22011 Certificate II in Electrotechnology (Career Start) are:

Category	Hours
Classroom Based Learning	468
Simulated/Practical Assessments	144
Workplace Learning	0
Total	612*

*The total volume of learning for a Certificate II level qualification must be at least 600 hours

Delivery

The duration for this course in training weeks will take 20 hours per week over 30 weeks

This will involve a blend of online, classroom based, simulated and supervised workplace based training to ensure full competency.

Assessment Methods

Assessment is structured throughout the course. If students are unable to achieve competency, additional support is provided through mentoring and access to re-assessment as outlined in our policies and procedures. Assessment requires achievement across all tasks to demonstrate competence and includes:

- Written Assessment
- Portfolio of Evidence including Third party Report
- Simulated/Practical Assessment (demonstration of skills)
- Workplace observation and demonstration

Recognition of Prior Learning (RPL)

Students with prior learning and work experience can apply for RPL. Students who have completed corresponding units of competency and/or units contained within the packaging rules can apply for Credit Transfer. RPL evidence must include some of the following:

- Work Experience
- Life Experience
- Previous Study e.g. qualifications, industry training
- Professional Development Programs and/or Courses

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Resources

Students will be provided with the following resources required to complete the UEE22011 Certificate II in Electrotechnology (Career Start) upon enrolment:

- Excerpts of Pethebridge, K and Neeson, 1 (2001) Electrical Wiring Practice, 7th Edition Vol 1 & 2, McGraw Hill Sydney (For Full course only), RPL students will receive handouts

Relevant Industry Standards

Superior Training Centre's delivery and assessment of the UEE22011 Certificate II in Electrotechnology (Career Start) complies with the following Australian standards:

- AS3000

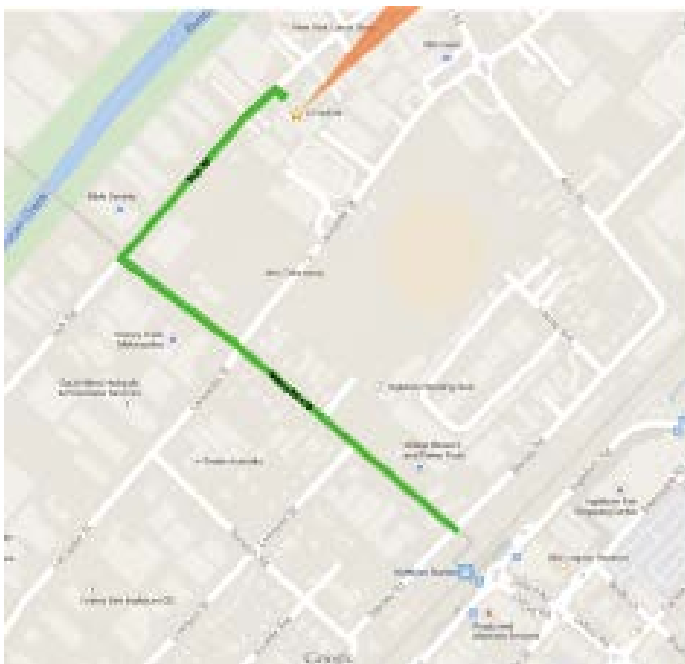
Total Course Fees

\$5,000.00 Deposit (non-refundable) This amount comes out of subsequent course fees.

\$12,000.00 Course Fees (Paid by Payment Plan)

\$500,00.00 Resource Fee for all books and resources

Campus Details and Facilities



Superior Training Centre is located at 1/13 York Road, Ingleburn NSW 2565.

The campus at Ingleburn provides quality teaching and learning facilities for students. The training facilities have been set up to run classroom based training sessions, to support the learning and assessment programs we offer.

The campus includes well-appointed facilities that offer a comfortable learning environment.

Library Services

Ingleburn Library is available to students to assist them with their study. The library is located at 76 Oxford Rd, Ingleburn NSW 2565 and is just a 15 minute walk from the campus. 02 46454060

How to Apply

Please contact Superior Training Centre by:

☎ +61 2 9618 6809

✉ info@stc.nsw.edu.au

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Important Information – Student Handbook, Policies and Procedures, Fees and Charges

Information about our training and assessment policies and procedures are included on our website www.stc.nsw.edu.au and should be read by you, prior to enrolment in addition to the Student Handbook which is also located on our website. These documents contain important information about your training course, fees and charges including our refund policy.

Identification of Student Needs and Student Support

Student needs are declared by the applicant at the time of enrolment: the application form allows the applicant to self declare where they have learning disabilities.

Every student is interviewed either face to face or over the telephone to attempt to establish the applicant skill and knowledge levels, their current employment and how that relates to the course content and interaction.

Where language literacy and numeracy are in question, Superior Training Centre has a language literacy and numeracy assessment they may undertake to confirm their level of language, literacy and numeracy skills.

Reasonable adjustments to training and assessment will be made and additional support (e.g. LLN, assistive technology, additional training, alternative delivery and assessment modes and methods) provided where students with physical attributes or specific learning needs are identified as requiring these changes to complete their training and assessment.