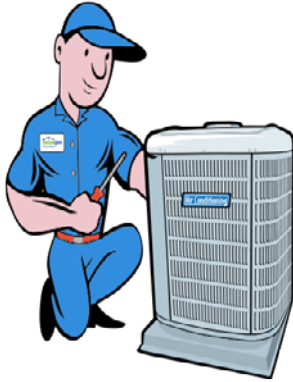


## Course Flyer

UEE20111 (CRICOS code 094823E) Certificate II in Split Air Conditioning and Heat Pump Systems



## Course Description



This qualification covers the installation, commissioning and de-commissioning of single head, split air conditioning and heat pumps systems to a prescribed routine where the maximum plant capacity for each system does not exceed 18 kW.

This includes wall hung, floor and ceiling suspended, cassette and ducted fan coil split systems and water heating heat pump systems. This qualification excludes competencies required for service, repair, maintenance, diagnostic/fault finding and electrical work or the safe and proper installation of commercial refrigeration, air conditioning and heat pump plant and equipment.

The duration of the UEE20111 Certificate II in Split Air-Conditioning and Heat Pump Systems is 20 contact hours per week over 30 weeks.

## Job Roles and Career Pathways

The qualification is designed for students wishing to enter the Electrotechnology industry for roles including Refrigeration and Air Conditioning Trades Assistant and Split Air Conditioning Systems Installer. Full details can be found at [www.training.gov.au](http://www.training.gov.au)

## Entry Requirements

### Course entry

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

### RTO Entry

This course is recommended for students who are currently employed in the Electrotechnology industry but without any formal qualifications. Students are required to have a limited knowledge and skill base in a variety of Electrotechnology contexts including making judgements, completing routine activities and taking limited responsibility in the Electrotechnology workplace. Obviously the more you know the better!

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.

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### Further Learning

The UEE20111 Certificate II Split Air Conditioning and Heat Pump Systems can be used to minimise the training time required for several specialised courses in the Electrotechnology Industry that will help you to further your career.

Students who complete the UEE20111 Certificate II Split Air Conditioning and Heat Pump Systems can continue their studies by advancing to the UEE32211 Certificate III in Air Conditioning and Refrigeration or any other relevant Certificate III level qualification.

### Course Structure

This course comprises all the required 10 Core competency units to a total of 340 points and one (1) elective unit, totalling 20 points.

The following units of competency will be delivered for this qualification

#### Core units

UEENEEE101A

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

UEENEEE137A

Document and apply measures to control OHS risks associated with electrotechnology work

UEENEEE038B

Participate in development and follow a personal competency development plan

UEENEEK142A

Apply environmentally and sustainable procedures in the energy sector

UEENEEE107A

Use drawings, diagrams, schedules, standards, codes and specifications

UEENEEE105A

Fix and secure electrotechnology equipment

UEENEEE102A

Fabricate, assemble and dismantle utilities industry components

UEENEEJ102A

Prepare and connect refrigerant tubing and fittings

UEENEEJ172A

Recover, pressure test, evacuate, charge and leak test refrigerants - split systems

UEENEEJ105A

Position, assemble and start up single head split air conditioning and water heating heat pump systems

(10 Units – Total 340 points)

#### Elective units

**Group A electives (a minimum of 0 points and maximum of 20 points)**

UEENECC010B

Deliver a service to customers

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## Core Units Syllabus (10 Units-Total 340 points)

Subject	Outcome (Required Skills & Knowledge)
<b>UEENEEE101A - Apply Occupational health Safety regulations, codes and practices in the workplace</b>	Understand the basic legal requirements covering occupational health and safety in the workplace Understand the work environment Understand manual Handling Understand chemicals in the workplace Understand working at heights Understand confined spaces Understand physical and psychological hazards Understand working safely with electricity Understand life support - CPR in the workplace
<b>UEENEEE102A - Fabricate, dismantle, assemble of utilities industry components</b>	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
<b>UEENEEE105A - Fix and secure Electrotechnology equipment</b>	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

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	and protecting wiring/cablings/piping and functional accessories using fixing adhesives and tapes
<b>UEENEEE107A - Use drawings, diagrams, schedules, standards, codes and specifications</b>	<ul style="list-style-type: none"> <li>Understand architectural drawings</li> <li>Understand electrical drawings</li> <li>Understand circuit diagrams</li> <li>Understand wiring diagrams</li> <li>Understand building construction drawings and diagrams</li> <li>Understand regulation for undertaking electrical work</li> <li>Understand standards philosophy and format</li> <li>Understand purpose, format and content of typical job specifications</li> </ul>
<b>UEENEEE137A - Documents and apply measures to control OHS risks associated with electrical work</b>	<ul style="list-style-type: none"> <li>Understand risk management and assessment of risk encompassing</li> <li>Understand hazards and risks and control measures in working on construction sites</li> <li>Understand hazards associated with extra-low voltage, low-voltage and high-currents</li> <li>Understand hazards and risks and control measures associated with high-voltage</li> <li>Understand hazards and risks and control measures in working with low voltage equipment</li> <li>Understand hazards and risks and control measures associated with harmful, devices, materials, gases, dusts and airborne contaminant</li> <li>Understand how to determine the degree of the risk</li> <li>Understand use control measures to eliminate or control the risk</li> <li>Understand engaging in monitoring and reviewing processes to ensure control measures remain valid</li> </ul>
<b>UEENEEJ102A – Prepare and connect refrigerant tubing and fittings</b>	<ul style="list-style-type: none"> <li>Understand piping</li> <li>Understand cutting</li> <li>Understand bending</li> <li>Understand joining</li> <li>Understand soldering and brazing equipment</li> <li>Understand silver solder</li> <li>Soldering techniques</li> </ul>
<b>UEENEEJ105A – Position, assemble and start up single head split air conditioning and water heating heat pump systems</b>	<ul style="list-style-type: none"> <li>Understand sustainable energy</li> <li>Understand sustainable energy work practices</li> <li>Understand heritage awareness</li> <li>Understand relevant installation codes</li> <li>Understand split air conditioning systems</li> <li>Understand types and applications</li> <li>Understand split water heating heat pump systems</li> <li>Understand installation of unit and pipework</li> <li>Understand system start up</li> <li>Understand de-commission split air conditioning systems</li> </ul>
<b>UEENEEE038B – Participate in development and follow a personal competency plan</b>	<ul style="list-style-type: none"> <li>Understand competency Development (Training) Plans</li> <li>Understand qualification Structure</li> <li>Understand responsibilities of Parties to the contract</li> <li>Understand industry customs and practices</li> <li>Understand monitoring of Workplace Evidence</li> </ul>

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	<p>RTO Policies</p> <p>Understand apprentice/Learner Discipline Policy</p> <p>Understand attendance at the Vocational and Technical Education Centre</p> <p>Understand fire and Emergencies at the Vocational and Technical Education Centre</p> <p>Understand occupational Health and Safety at the Vocational and Technical Education Centre</p> <p>Understand entry Requirements</p> <p>Understand vocational and Technical Education Centre Tour</p>
<b>UEENEEJ172A – Recover, pressure test, evacuate, charge and leak test refrigerants– split systems</b>	<p>Understand the Residential Air Conditioning and Heat Pump Industry and Licensing Requirements</p> <p>Understand heat</p> <p>Understand temperature and Relative Humidity</p> <p>Understand sensible and Latent Heat</p> <p>Understand pressure</p> <p>Understand refrigerant conditions</p> <p>Understand the Vapour Compression Cycle</p> <p>Understand thermometers and relative humidity devices</p> <p>Understand leak Detectors</p> <p>Understand service Gauges</p> <p>Understand properties of Split Heat Pump Refrigerants</p> <p>Understand properties of Split Heat Pump Refrigerant Oils</p> <p>Understand procedures for Working with Refrigerants</p>
<b>UEENEEK142A – Apply Environmentally and sustainable procedures in the energy sector</b>	<p>Understand sustainable work practices encompassing</p> <p>Understand techniques for reducing carbon produced energy and hence greenhouse gases</p>

## Elective units (group A) – Syllabus (a minimum of 0 points and maximum 20 points)

Subject	Outcome (Required Skills & Knowledge)
<b>UEENEEC010B - Deliver a service to customers</b>	<p>Understand enterprise communication methods</p> <p>Understand work activities records</p> <p>Understand problem solving concepts and techniques</p> <p>Understand enterprise customer relations protocols</p> <p>Understand enterprise quality management system</p> <p>Understand instructing users in the use of specific items of equipment and systems</p>

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Conditioning and Heat Pump Systems

### 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 UEE20111 Certificate II in Split Air-Conditioning and Heat Pump Systems are:

Category	Hours
Classroom Based Learning	468
Simulated/Practical Assessments	144
Workplace Learning	0
<b>Total</b>	<b>612</b>

*\*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 resource handouts required to complete the UEE20111 Certificate II in Split Air Conditioning and Heat Pump Systems upon enrolment:

- Excerpts of Australian Refrigeration and Air-Conditioning Vol 1 Edition 5 & Vol 2 Edition 5 by Graham Boyle

## Relevant Industry Standards

Superior Training Centre's delivery and assessment of the UEE20111 Certificate II in Split Air Conditioning and Heat Pump Systems complies with the following Australian standards:

- AS1668.2

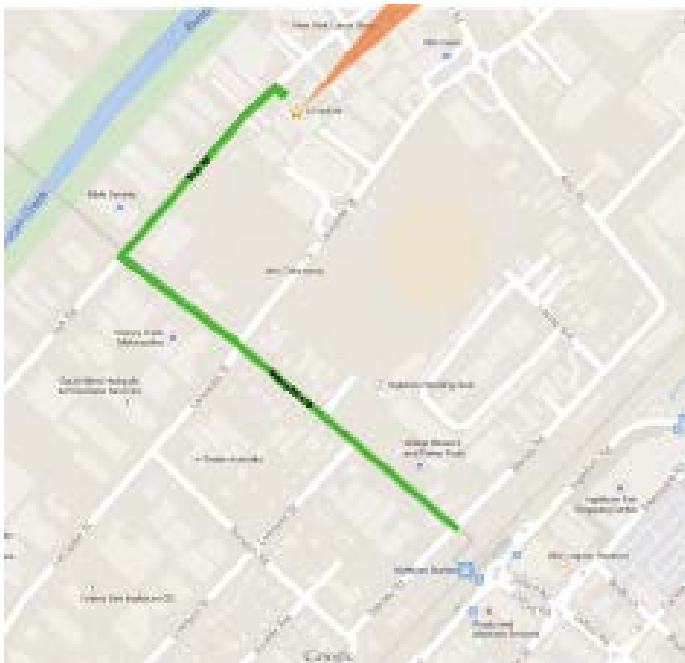
## Total Course Fees

\$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 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](http://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.