

# UEE50511 Diploma of Electronics and Communications Engineering

National ID: UEE50511 | State ID: A160

## About this course

### Are you ready to join the ranks of electronics professionals?

Advance your career in electronics and communications with the Diploma of Electronics and Communications Engineering. With this technical qualification, you will gain specialised knowledge and extensive skills across the electrical engineering field to progress towards a career as an engineering associate, technical officer, or electronic systems technician. Our purpose-built facility features advanced technologies and equipment to ensure students are learning in an industry-standard setting.

### Gain these skills:

- assemble, test, maintain, and troubleshoot a range of electronic components and devices
- fault-find power supplies, amplifiers, communications systems, digital and microcontroller systems
- write and test programs to control devices
- commission and modify electronic systems
- develop design briefs
- supervise a team
- workplace health and safety and sustainability practices

Dual qualification: At our Thornlie campus you will have the opportunity to concurrently complete UEE50111 [Diploma](#)




of [Computer Systems Engineering](#), as many of the units are common to both courses. Ask for more information.

## Overview

*This course may be offered with a blended, flexible delivery model to enable social distancing measures to be undertaken during the COVID-19 pandemic. This approach may include a mix of online and classroom based delivery, as well as practical and work experience placements. Lecturers will provide any specific instructions if your training delivery style needs to change.*

## All year round, 2020

### Thornlie - Classroom-Traineeship

-  Duration: **3 Semesters**
-  When: **All year round**
-  How: **Part Time  
Traineeship**

## Units

### Core

National ID	Unit Title
UEENEEE038B	Participate in development and follow a personal competency development plan
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work
UEENEEH167A	Commission electronics and communications systems
UEENEEH168A	Modify - redesign of electronics and communications systems

**National ID**

**Unit Title**

UEENEEK145A

Implement and monitor energy sector environmental and sustainable policies and procedures

**Elective**

**National ID**

**Unit Title**

UEENEEC005B

Estimate electrotechnology projects

UEENED101A

Use computer applications relevant to a workplace

UEENED103A

Evaluate and modify object oriented code programs

UEENED104A

Use engineering applications software on personal computers

UEENED129A

Develop web pages for engineering applications

UEENED150A

Develop industrial control programs for microcomputer equipped devices

UEENEEE102A

Fabricate, assemble and dismantle utilities industry components

UEENEEE104A

Solve problems in d.c. circuits

UEENEEE110A

Develop and implement energy sector maintenance programs

UEENEEE114A

Supervise and coordinate energy sector work activities

UEENEEE124A

Compile and produce an energy sector detailed report

UEENEEF108A

Select and arrange equipment for wireless communication networks

UEENEEH102A

Repairs basic electronic apparatus faults by replacement of components

UEENEEH111A

Troubleshoot single phase input d.c. power supplies

UEENEEH112A

Troubleshoot digital sub-systems

UEENEEH113A

Troubleshoot amplifiers in an electronic apparatus

UEENEEH114A

Troubleshoot resonance circuits in an electronic apparatus

National ID	Unit Title
UEENEEH115A	Develop software solutions for microcontroller based systems
UEENEEH138A	Fault find and repair complex power supplies
UEENEEH139A	Troubleshoot basic amplifier circuits
UEENEEH145A	Develop engineering solutions to analogue electronic problems
UEENEEH146A	Solve fundamental electronic communications system problems
UEENEEH148A	Design and develop advanced digital systems
UEENEEH166A	Troubleshoot microcontroller based hardware systems
UEENEEH172A	Troubleshoot communication systems
UEENEEH181A	Design electronic printed circuit boards
UEENEEH188A	Design and develop electronics - computer systems projects
UEENEEI155A	Develop structured programs to control external devices
UEENEEI156A	Develop and test code for microcontroller devices

## Entrance requirements

School Leaver	Non-School Leaver	AQF
Completion of WACE General or ATAR (Minimum C Grades) or equivalent	Completion of WACE General or ATAR or equivalent (minimum C Grades)	Certificate III

## Study pathway



[Certificate II in Electronics](#)



[Certificate IV in Electronics and Communications](#)



## [Diploma of Electronics and Communications Engineering](#)

### Become a specialist in your field with university study

This course has a university study pathway as at **28 October 2019**.

Curtin University – Bachelor of Science (Multidisciplinary Science) – 100 Credits

Curtin University – Bachelor of Science (Computing) – 50 Credits

The information about university credit points and tuition costs provides a general guide only. To check the current credit arrangements and to find more information about how credits work at the listed university of your choice, visit TAFE International WA's [University Pathway Finder](#).

### Job opportunities



#### [Engineering Associate | Technical Officer](#)

*Please note this list should be used as a guide only as job titles and qualification requirements may vary between organisations.*

SM TAFE actively promotes the employment availability of course graduates to key industry partners and organisations. We also seek expressions of interest from organisations for the placement of our students into work experience. We endeavour to assist students into a career pathway, but please be aware that neither employment nor work experience placement is guaranteed by us.

To access free career planning and job search assistance, visit the [Jobs and Skills Centres](#) page.

### Fees and charges

#### Indicative fees and charges

[2020 General Admission Fees List](#)

[2020 Apprenticeship/Traineeship Fees List](#)

Fees and charges published on our website are indicative. Your fees will depend on your eligibility for government funding or a concession rate, and the units you choose to study or seek to be recognised under Recognition of Prior Learning (RPL). Our Indicative fees lists show fees that are:

- Based on the full possible study plan of units, including the recommended electives
- Based on full time study in 2020
- Charged at the government funded rate for over 18 years of age students
- Based on unit electives designed to meet localised industry demand for skills
- Made up of course fees and resource fees, or RPL fees. Course fees are the cost of your tuition, while resource fees pay for consumables provided to you to aid your study (such as printing and paper). You may also be required to purchase text books or equipment that are not part of our tuition or resource fees.

Fees may vary between students and between educational providers. Other charges may apply.

Visit our [Fees and payment options](#) page for more information.

Call 1800 001 001 to get a more accurate fee indication based on your eligibility and study plan before applying.

## VET Student Loans

Selected courses are VET Student Loan eligible courses.

A VET Student Loan creates a debt that must be repaid to the Commonwealth and is only available to students who are eligible.

To find out if you are eligible or to see the list of eligible courses visit our [Student Loans](#) page.

## International students

Selected courses are available to International students for full time study only.

Fees, charges, available locations, applications and enrolment procedures for International students are different to those for students who have Australian permanent residency.

For more information or to find a course visit the [TAFE International WA](#) website.

## Apprenticeships and traineeships

Fees for apprenticeships and traineeships are charged at a rate per nominal hour of study.

This means that your fees will vary depending on the units you study as part of your training plan.

Apprentices and trainees are liable to pay for their own fees but some industrial agreements (awards) dictate that employers are required to reimburse their apprentice upon receipt of satisfactory progress. An employer may also opt to pay on behalf of the apprentice or trainee.

For more information visit our [Apprenticeships and traineeships](#) page.

## Recognition of Prior Learning

Recognition of Prior Learning (RPL) enrolments are charged at \$3.25 per nominal hour of study.

No concession fees apply to RPL enrolments. Refer to the institutional or apprenticeship/traineeship fee lists for an indicative RPL course fee.

**Please note, fees are subject to change.**