



# 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?

When you complete the Diploma of Electronic Engineering you'll be well on your way to an in-demand career as an engineering associate, technical officer, or electronic systems technician.

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

Dual qualification: at the Thornlie campus you will have the opportunity to concurrently complete A155 UEE50111 Diploma of Computer Systems Engineering as many units are common to both courses. Ask for more information.

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.

## Overview

### Semester 1, 2019

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#### Thornlie Campus - Full Time-Classroom



Duration: **3 Semesters**



When: **Semester 1, 2019**



How: **Full Time**

## Units

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### 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
UEENEEK145A	Implement and monitor energy sector environmental and sustainable policies and procedures

### Elective

National ID	Unit Title
UEENEEC005B	Estimate electrotechnology projects
UEENEEED101A	Use computer applications relevant to a workplace
UEENEEED103A	Evaluate and modify object oriented code programs
UEENEEED104A	Use engineering applications software on personal computers
UEENEEED129A	Develop web pages for engineering applications
UEENEEED150A	Develop industrial control programs for microcomputer equipped devices
UEENEEEEE102A	Fabricate, assemble and dismantle utilities industry components
UEENEEEEE104A	Solve problems in d.c. circuits
UEENEEEEE110A	Develop and implement energy sector maintenance programs
UEENEEEEE114A	Supervise and coordinate energy sector work activities
UEENEEEEE124A	Compile and produce an energy sector detailed report
UEENEEEF108A	Select and arrange equipment for wireless communication networks
UEENEEEH102A	Repairs basic electronic apparatus faults by replacement of components
UEENEEEH111A	Troubleshoot single phase input d.c. power supplies
UEENEEEH112A	Troubleshoot digital sub-systems
UEENEEEH113A	Troubleshoot amplifiers in an electronic apparatus
UEENEEEH114A	Troubleshoot resonance circuits in an electronic apparatus
UEENEEEH115A	Develop software solutions for microcontroller based systems
UEENEEEH138A	Fault find and repair complex power supplies
UEENEEEH139A	Troubleshoot basic amplifier circuits
UEENEEEH145A	Develop engineering solutions to analogue electronic problems

National ID	Unit Title
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

## Job opportunities

- When you complete the Diploma of Electronic Engineering you'll be well on your way to an in-demand career as an engineering associate, technical officer, or electronic systems technician.

For information about jobs and pathways, please see <http://joboutlook.gov.au/>

Further study opportunities:

- University

## Fees and charges

### Indicative fees and charges

[2019 general admission fees list](#)

### [2019 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 2019
- 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.**