



UEE50111 Diploma of Computer Systems Engineering

National ID: UEE50111 | State ID: A155

About this course

Are you ready for a high end technology career?

When you complete the Diploma of Computer Systems Engineering you'll be well on your way to a career as an engineering associate, technical officer, or computer systems technician.

You will gain the skills and knowledge to assemble, test, maintain, and troubleshoot a range of electronic devices and computer systems. You will develop your skills to fault-find digital and microcontroller systems, and develop skills in design, configuration and fault-finding computer networks. This course also includes PCB CAD design, microcontroller and object oriented code programming.

By completing this course at South Metropolitan TAFE you'll also gain valuable skills in Cisco CCNA and Cisco Wireless.

Dual qualification: Students will have the opportunity to concurrently complete A160 UEE50511 Diploma of Electronics and Communications Engineering with this course 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

Thornlie Campus - Full Time-Classroom



Duration: **3 Semesters**



When: **Semester 1, 2019**



How: **Full Time**

Units

Core

| Unit Title | National ID |
|---|-------------|
| Commission industrial computer systems | UEENEED144A |
| Modify-redesign of industrial computer systems | UEENEED145A |
| Participate in development and follow a personal competency development plan | UEENEEE038B |
| Apply Occupational Health and Safety regulations, codes and practices in the workplace | UEENEEE101A |
| Implement and monitor energy sector OHS policies and procedures | UEENEEE117A |
| Document and apply measures to control OHS risks associated with electrotechnology work | UEENEEE137A |
| Implement and monitor energy sector environmental and sustainable policies and procedures | UEENEEK145A |

Elective

| Unit Title | National ID |
|--|-------------|
| Estimate electrotechnology projects | UEENEEC005B |
| Prepare tender submissions for electrotechnology projects | UEENEEC006B |
| Use computer applications relevant to a workplace | UEENEED101A |
| Assemble, set-up and test computing devices | UEENEED102A |
| Evaluate and modify object oriented code programs | UEENEED103A |
| Use engineering applications software on personal computers | UEENEED104A |
| Develop, implement and test object oriented code | UEENEED111A |
| Support computer hardware and software for engineering applications | UEENEED112A |
| Install and configure network systems for internetworking | UEENEED117A |
| Design and implement network systems for internetworking | UEENEED118A |
| Develop web pages for engineering applications | UEENEED129A |
| Install and configure a client computer operating system and software | UEENEED143A |
| Set up and configure basic local area network (LAN) | UEENEED146A |
| Develop industrial control programs for microcomputer equipped devices | UEENEED150A |
| Develop design briefs for electrotechnology projects | UEENEEE015B |
| Write specifications for computer systems engineering projects | UEENEEE070B |
| Compile and produce an energy sector detailed report | UEENEEE124A |
| Select and arrange equipment for wireless communication networks | UEENEFF108A |
| Develop software solutions for microcontroller based systems | UEENEEH115A |
| Troubleshoot microcontroller based hardware systems | UEENEEH166A |
| Design electronic printed circuit boards | UEENEEH181A |

| Unit Title | National ID |
|--|-------------|
| Analyse the performance of wireless-based electronic - communication systems | UEENEEH183A |
| Develop structured programs to control external devices | UEENEEI155A |
| Develop and test code for microcontroller devices | UEENEEI156A |

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 Computer Systems Engineering you'll be well on your way to a career as an engineering associate, technical officer, or computer 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.



**South
Metropolitan**

*We're working for
Western Australia.*

Please note, fees are subject to change.



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