



22519VIC Certificate IV in Integrated Technologies (Robotics Control Systems)

National ID: 22519VIC | State ID: AB84

About this course

Integrated technology is the coming together of various technologies that were previously stand alone, into new and innovative integrated applications.

The impact of the application of **integrated technologies** is being increasingly felt within a range of industry areas such as **mining, engineering, electrical, electronic, information technology and manufacturing industries**. The technology used by these industries range from traditional electronics, hardware platform, networking automation, fibre internet connectivity.

Technicians who work in **Industry 4.0** sectors are required to be skilled in multiple disciplines.

To be able to competently repair and maintain equipment you will need knowledge and skills in the following areas:

Networking - Including both wireless and cabled networks that incorporates the principles of cyber security

Data Collection and Predictive Analysis.

Electronics - You may be required to repair and fault-find sensitive electric equipment

Electrical - You will need to be able to understand the electrical concepts incorporating safety and licensing issues

Mechatronics - You'll have to have an understanding of the equipment that is used in the automatic processing and manufacture of products

Auto control - Repair and maintenance of automatic control systems whether they are physical devices on site or control provided by online via the industrial internet of things will also be a required skill

Robotics - You will need to be able to program and repair robotic equipment

Graduates of the course will be able to seek employment as service technicians capable of operating, installing and repairing a wide variety of equipment and includes the "Industrial Internet of Things" (IIoT).

Gain these specific skills in an integrated technology context

- Installation of integrated technology applications
- Set up of applications
- Maintenance within industry
- Fault diagnosis and rectification

Is this course right for me?

I have the following attributes:

- An ability in mathematics for engineering purposes
- Analytical skills and the ability to interpret information
- An interest in programming and building robots

Details

During your course of study, NMTAFE may use a variety of learning practices to ensure you get the best outcome for your learning journey.

This may include online learning, face-to-face classroom, laboratory/workshop delivery, work placement or a combination of these, depending on which is most appropriate.

Semester 2, 2020

East Perth - On Campus



Duration: **2 Semester/s**



When: **Semester 2, 2020**



How: **On campus**

Semester 2, 2020

Midland - On Campus



Duration: **2 Semester/s**



When: **Semester 2, 2020**



How: **On campus**

Entrance requirements

School Leaver

Non-School Leaver

AQF

C Grades in Year 11 WACE General English, and OLNA or NAPLAN 9 Band 8

C Grades in Year 11 English and Maths or equivalent

Certificate II or Certificate III

While there are no set pre-requisites for the course, the completion of 22289VIC Certificate II in Integrated Technologies (Robotics Control Systems) or similar, or relevant industry experience in electronics, and/or programming would be an advantage.

Further study

Further study, including at university, in electrotechnology or engineering.

Job opportunities

- Service Technician
- Installation Technician
- Technician responsible for monitoring performance of equipment
- Technician engaged in repair of equipment and restoration of operations after failure

Important information

This course will be completed on campus, typically from 8:30am to 4:30pm over 3 days per week

Fees and charges

Local full time students

Course fees are made up of two components, tuition fees and resource fees.

Tuition fees are determined by multiplying the course fee rate by the nominal hours, which is the number of hours in which an average student could be expected to complete each unit. They are not the hours of training or instruction.

Resource fees are charges for material that are essential to a course or unit, and are purchased by NMT to be used by students during the course.

Fees may vary depending on the units you are enrolled in so an approximate amount has been shown. You will be given the exact amount of your fees at enrolment. Part time student fees will vary depending on the number of units you are enrolled in.

Please note, you may also need to buy textbooks or equipment for your course.

International Students

Check [TAFE International WA](#) to confirm this course is available to international students. You will pay your tuition fees to TIWA.

Please note, fees are subject to change.