



# UEE40411 Certificate IV in Electrical - Instrumentation

National ID: UEE40411 | State ID: A135

## About this course

### Become instrumental in maintaining high tech control systems

**Are you a qualified tradesperson with an electrical trade background?** If so this course will give you the practical skills and knowledge to be employed as an **instrumentation and control technician**. You will undertake both theoretical and practical training. The **theoretical component is online** whilst the practical components can be completed at our Midland campus (generally within two weeks).

**To complete this qualification you will need to have prerequisite, core and other units required for the Certificate IV credited via an RPL or Credit Transfer process.**

For further information, please contact: [instrumentation@nmtafe.wa.edu.au](mailto:instrumentation@nmtafe.wa.edu.au)

### Gain these skills

- Install, commission, calibrate and maintain modern instrumentation and control systems
- PLC programming
- Configure instruments
- Prepare industry reports

### Is this course right for me?

I have the following attributes:

- Good at problem solving and interested in working with machinery/high tech equipment
- Able to concentrate in busy or stressful situations
- Comfortable working in a physical environment
- Good at reading and interpreting plans
- Safety conscious



Some of the courses on the list can be done completely online. However some of the courses require a practical component which can't be done online, or some may be a mix of online and face-to-face learning. We'll let you know what's required for your course. For a full list of online courses, please use the filters under the *Refine course results* menu.

## 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.

## Continuous enrolment, 2020

### Midland - Online

 Duration: **6 Months**

 When: **Continuous enrolment**

 How: **Online**

## 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
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components
UEENEEE104A	Solve problems in d.c. circuits
UEENEEE105A	Fix and secure electrotechnology equipment
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures
UEENEEE124A	Compile and produce an energy sector detailed report
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work

National ID	Unit Title
UEENEEG006A	Solve problems in single and three phase low voltage machines
UEENEEG033A	Solve problems in single and three phase low voltage electrical apparatus and circuits
UEENEEG063A	Arrange circuits, control and protection for general electrical installations
UEENEEG101A	Solve problems in electromagnetic devices and related circuits
UEENEEG102A	Solve problems in low voltage a.c. circuits
UEENEEG103A	Install low voltage wiring and accessories
UEENEEG104A	Install appliances, switchgear and associated accessories for low voltage electrical installations
UEENEEG105A	Verify compliance and functionality of low voltage general electrical installations
UEENEEG106A	Terminate cables, cords and accessories for low voltage circuits
UEENEEG107A	Select wiring systems and cables for low voltage general electrical installations
UEENEEG108A	Trouble-shoot and repair faults in low voltage electrical apparatus and circuits
UEENEEG109A	Develop and connect electrical control circuits
UEENEEI101A	Use instrumentation drawings, specification, standards and equipment manuals
UEENEEI102A	Solve problems in pressure measurement components and systems
UEENEEI103A	Solve problems in density/level measurement components and systems
UEENEEI104A	Solve problems in flow measurement components and systems
UEENEEI105A	Solve problems in temperature measurement components and systems
UEENEEK145A	Implement and monitor energy sector environmental and sustainable policies and procedures

## Elective

National ID	Unit Title
UEENEEI150A	Develop, enter and verify discrete control programs for programmable controllers
UEENEEI151A	Develop, enter and verify word and analogue control programs for programmable logic controllers

## Entrance requirements

### School Leaver

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

### Non-School Leaver

C Grades in Year 11 English and Maths or equivalent

### AQF

Certificate II or Certificate III

## Job opportunities



[Instrumentation and Control Technician | Electronic Engineering Technician](#)

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

## 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.**