



UEE40411 Certificate IV in Electrical - Instrumentation

National ID: UEE40411 | State ID: A135

About this course

Our Certificate IV in Electrical (Instrumentation) provides eligible persons with the training, skills and knowledge to install, commission, calibrate and maintain modern instrumentation and control systems. This may include loop tuning of multi controller or multi element systems and PLC training where required.

This course will be of interest to unrestricted electricians, or electrical apprentices in their third or fourth year of study.

What does the course cover?

• Engineering Maths • P & I Diagram • Feedback Systems • Pressure • Level • Flow • Temperature • Analysis • Intrinsic Safety • PID • Fluid Power • Pneumatic Instruments • Variable Speed Drives • Advanced Control

You will be expected to apply your developed knowledge and skills to install, maintain and measure the operational parameters in a supervised work place-typically a production factory. Additionally, you will be required to interpret information, make discretionary judgements and be responsible for your own work outputs.




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

Munster - Classroom-Traineeship

-  Duration: **2 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
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	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

Study pathway

Successful completion of this qualification provides you with the opportunity to gain employment in the engineering industry or continue study to become an engineering associate in the instrumentation and control field.

Job opportunities

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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



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indicative RPL course fee.

Please note, fees are subject to change.



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