

UEE40411 Certificate IV in Electrical - Instrumentation



DESCRIPTION

As a post-trade program, this qualification provides the skills and knowledge required to work with industrial measurement instrumentation; programmable logic controllers (PLCs) and control loops.

As a full program the requirements for an 'Electrician's licence' are addressed.

Additional elective units may be taken as a skill set.

ELIGIBILITY/ENTRY REQUIREMENTS

Students will need to demonstrate an appropriate level of language, literacy and numeracy skills and knowledge to undertake a course at this level. To gain entry into UEE40411 Certificate IV Electrical – Instrumentation candidates are required to be:

1. A new entrant trainee.
2. An Electrical apprentice who has completed all electrical pre-requisites; or
3. A person holding UEE30811 Certificate III in Electrotechnology Electrician qualification or equivalent; or
4. The holder of an Unrestricted Electrical Licence.

DELIVERY DETAILS

Location (s)	Duration	Study mode
Casuarina - Building Pink 9 - Start 9:00 am	Full time – four (4) years OR Part-time – six (6) years (negotiated between apprentice, employer and CDU).	Face to face delivery at the Campus, combining theory and practical training and assessments. Mixed delivery mode may be available with some units and need to be negotiated with the Team Leader. A simulated practical workshop may be conducted with specific units.

2020 FEES

This course has a total of 1360 hours, and thus the qualification cost is:

Domestic Full Fees: \$23,120.00

NT Domestic Subsidised Fees:\$4,624.00

Please note: A limited number of NT Government subsidy places are available for eligible NT domestic students so contact us now to secure your place for 2020.

Fees are subject to change annually. Indicative government-subsidised and full course fees are shown on this document. For further clarification and information on fees, payment options, instalment plans and refunds contact CDU on 1800 061 963 or refer to <https://www.cdu.edu.au/cdu-vet/student-guide/fees>

ASSESSMENT

Assessments vary with each unit. You will be provided with an assessment guide.

RECOGNITION OF PRIOR LEARNING (RPL)

Students can apply for RPL during pre-enrolment or after enrolment. Students are provided with an RPL Self-Assessment before application and followed through with and an initial interview with an assessor.

RESOURCES

Students are issued with unit workbooks and task sheets for the unit undertaken.

STUDY AND CAREER PATHWAYS

Further training pathways from this qualification include but are not limited to UEE50211 Diploma of Electrical and Instrumentation (CDU do not deliver this course) or to other disciplines in Electrotechnology.

QUALIFICATION CONTENT

To achieve a UEE40411 Certificate IV in Electrical – Instrumentation, approximately 30 - 33 units of competency must be completed from the Electrotechnology Training Package, which is recognised nationwide.

There are 27 core units and approximately 3 - 6 elective units, depending on the units' individual points.

CORE UNITS OF COMPETENCY

CORE UNITS	
NOTE: Competencies marked # have pre-requisite competencies	
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
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, specifications, 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 UNITS

Electives usually are selected from the list below and nominated on individual Training Plans. Other units are available for Credit Transfer and Recognition of Prior Learning (RPL).

Group B – Qualification Units		Weighting Points
You may complete units to a maximum weighting of 60		
UEENEEI106A #	Set up and adjust PID process control loops	40
UEENEEI107A #	Install instrumentation and control cabling and tubing	20
UEENEEI150A #	Develop, enter and verify discrete control programs for programmable controllers	60

Group C – Qualification Elective Units		Weighting Points
Complete units to a minimum weighting of 60 You may select all your elective units from this Group		
UEENEEI119A	Set up industrial field control devices	60 Credit Transfer Only
UEENEEI120A	Provide solutions to problems in industrial control systems	60
UEENEEI151A	Develop, enter and verify word and analogue control programs for programmable logic controllers	60

WITHDRAWING FROM A QUALIFICATION

You may withdraw from this qualification and receive, where relevant, a Statement of Attainment for all units of competency you have successfully completed.

SUPPORT SERVICES

The University supplies support for students in many areas, including Accommodation, Careers and Employment, Counselling, Disability Service, Equal Opportunity, Discrimination and Harassment advice, Australian Indigenous Student Support Services, Information Technology Services, International Student Support Services, Library Services, and Learner Support Services.

More information is available at - www.cdu.edu.au/study/student-life/student-support

CONTACT DETAILS

SCHOOL OF TRADES

Electrotechnology (Top End)

T: 08 8946 7505

E: electrotechnology@cdu.edu.au

W: <http://www.cdu.edu.au/cdu-vet>

Trades (Central)

T: 08 8946 7509

E: tradescentral@cdu.edu.au

W: www.cdu.edu.au/cdu-vet

Refer to the **VET Student Guide** www.cdu.edu.au/cdu-vet/student-guide for information regarding the enrolment process, student support services, student rights and responsibilities, previous studies recognition and the A-Z of other information.