UEE31225 Certificate III in Instrumentation and Control

DESCRIPTION

This qualification covers competencies to select, install, set up, test, fault find, repair and maintain systems and devices for measurement and recording of physical/chemical phenomenon and related process control.

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

ELIGIBILITY/ENTRY REQUIREMENTS

A Language, Literacy, Numeracy and Digital Literacy (LLND) evaluation helps identify any areas where you may need additional support to help you achieve your goals.

To gain entry into UEE31225 Certificate III in Instrumentation and Control, candidates are required to be:

- Apprentices who have entered into a training contract with Australian Apprenticeships NT and have previously completed or partially completed another aligned UEE course.

OR

- Hold a Certificate III in Electrotechnology – Electrician, hold an A-Grade Electrical Licence

OR

- Hold a restricted electrical licence endorsed "Instrumentation & Controls". Or
- Minimum studying 3rd year certificate III in Electrotechnology

Students will need to demonstrate an appropriate level of language, literacy, numeracy and digital literacy skills and knowledge to undertake a course at this level.

DELIVERY DETAILS

Location(s)	Casuarina
Duration*	1.5 Years Part time 5 x 1-week blocks + 1 x 2-week block – blocks spaced approx. 4-6 weeks apart
Study mode ^^	Face to face, Simulated Workplace
Start Date/s ^	Start and end dates January 11, 2027 – December 10, 2027 Students will receive an individualised call-up notification letter.
Attendance	Block delivery: Monday to Friday 8.00 am to 4.20 pm

** Duration may vary depending on how long a student takes to reach the required competency level.*
^ Course timetable will be provided on application for the course.
^^Information relating to study modes can be found in the 2027 TAFE Student Guide

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FEES

Fee Type	2027 Course Fees
NT Government Supported*	$4,503.00
Full Fee	$16,769.40

*This course is supported by the NT Government for domestic eligible students who are NT residents. A limited number of NT Government supported places are available, so secure your place now.

Fees shown are indicative and subject to change annually. Actual course fees may vary depending on the units chosen. For International non-student visa-holders; study eligibility needs to be verified before enrolment. Fees may vary depending on the visa type. The course fee rates will vary for commercial contract arrangements.

For further clarification and information on fees, fee exemptions, payment options, instalment plans, and refunds, contact CDU on 1800 061 963 or refer to TAFE Fees and Payments

ASSESSMENT

Skills and knowledge assessments are an essential step in progressing through your course. You may be assessed in a number of ways including written assessment, questioning , portfolios, work samples, direct observation, practical assessments and third-party feedback.

Throughout your course you will receive information about assessments including how, when and where assessments will be conducted.

RECOGNITION OF PRIOR LEARNING (RPL)

RPL is a process that determines whether the skills, knowledge and experience you've gained through your previous study, work or life experience can count towards a vocational training qualification at CDU. For more information, VET RPL.

CREDIT TRANSFER (CT)

Charles Darwin University as a Registered Training Organisation recognises the Australian Qualifications Framework qualifications and Statement of Attainments issued by any other Australian Registered Training Organisation (RTO).

Students are encouraged to submit any requests for credit from previous studies at the time of enrolment, to ensure they are not enrolling in units they may not need to undertake.

RESOURCES

Students will have 24/7 access to assessments and learning resources on Learnline, CDU's online learning platform. Before you can start using Learnline, you'll need to make sure that your computer has the correct setup. For more details: https://www.cdu.edu.au/current-students/services/learnline

Students are issued with workbooks and handouts for the duration of the course.

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STUDY AND CAREER PATHWAYS

Further training pathways from this qualification include but are not limited to UEE42220 - Certificate IV in Instrumentation and Control.

Possible occupations relevant to this qualification include:

- Instrumentation and Control Technician
- Instrumentation and Control Senior Technical Officer
- Instrumentation Fitter
- Electrical & Instrumentation Dual Trader

QUALIFICATION CONTENT

To achieve UEE31225 Certificate III in Instrumentation and Control a total of one thousand and sixty (1,060) points must be completed comprising of nine-hundred and twenty (920) core points and one-hundred and forty (140) elective points as detailed in the packaging rules and listed below. The electives offered may vary between campuses.

CORE UNITS

UEECD0007	Apply work health and safety regulations, codes and practices in the workplace	20
UEECD0016*	Document and apply measures to control WHS risks associated with electrotechnology work	20
UEECD0019*	Fabricate, assemble and dismantle utilities industry components	40
UEECD0020*	Fix and secure electrotechnology equipment	20
UEECD0043*	Solve problems in direct current circuits	80
UEECD0045*	Solve problems in multiple path extra-low voltage (ELV) a.c. circuits	40
UEECD0051*	Use drawings, diagrams, schedules, standards, codes and specifications	40
UEECO0028	Engage in instrumentation, control, machine repair or switchgear work and competency development activities	60
UEEIC0013*	Develop, enter and verify discrete control programs for programmable controllers	60
UEEIC0021*	Find and rectify faults in process final control elements	40
UEEIC0022*	Install instrumentation and control apparatus and associated equipment	20
UEEIC0023*	Install instrumentation and control cabling and tubing	20
UEEIC0029*	Set up and adjust PID control loops	40
UEEIC0030*	Set up and adjust advanced PID process control loops	40
UEEIC0031*	Set up and configure human-machine interface (HMI) and industrial networks	60
UEEIC0038*	Solve problems in density/level measurement components and systems	40
UEEIC0039*	Solve problems in flow measurement components and systems	40
UEEIC0041*	Solve problems in pressure measurement components and systems	40
UEEIC0043*	Solve problems in temperature measurement components and systems	40

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UEEIC0047*	Use instrumentation drawings, specifications, standards and equipment manuals	40
UEEIC0048*	Verify compliance and functionality of instrumentation and control installations	40
UEERE0001	Apply environmentally and sustainable procedures in the energy sector	20
UEERL0004*	Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring	60

ELECTIVE UNITS

ICTICT214	Operate application software packages	20
UEECD0011	Comply with scheduled and preventative maintenance program processes	20
UEECO0002	Maintain documentation	20
UEECS0033	Use engineering applications software on personal computers	40
UEEIC0004*	Calibrate, adjust and test measuring instruments	40
UEEIC0036	Set up water analysis measuring and control instruments	20
UEEIC0046*	Troubleshoot process control systems	60

**Pre-requisite units are listed below.*

Units	Prerequisite Unit/s
UEECD0016, UEECD0019, UEECD0020, UEECD0043, UEECD0051, UEERL0004, UEEIC0013	UEECD0007
UEECD0045	UEECD0007 and UEECD0043 or UEECD0044, UEECD0046
UEEIC0041, UEEIC0022, UEEIC0023, UEEIC0043, UEEIC0004	UEECD0007, UEECD0051, UEEIC0047
UEEIC0047	UEECD0007, UEECD0051
UEEIC0038, UEEIC0039	UEECD0007, UEECD0051, UEEIC0047, UEEIC0041
UEEIC0021	UEECD0007, UEECD0051, UEEIC0047, UEEIC0023, UEEIC0022
UEEIC0029	UEECD0007, UEECD0043, UEECD0051, UEEIC0047, UEEIC0041, UEEIC0038, UEEIC0039, UEEIC0043
UEEIC0030	UEECD0007, UEECD0051, UEEIC0047, UEEIC0041, UEEIC0038, UEEIC0039, UEEIC0043, UEEIC0029 and UEECD0043 or UEECD0044, UEECD0046
UEEIC0031	UEEIC0047, UEEIC0041, UEEIC0038, UEEIC0039, UEEIC0043, UEEIC0029, UEEIC0030
UEEIC0039	UEECD0007, UEECD0051, UEEIC0047 and UEECD0043 or UEECD0044, UEECD0046
UEEIC0046	UEECD0007, UEECD0051, UEEIC0047, UEEIC0041, UEEIC0038, UEEIC0039, UEEIC0043, UEEIC0029, UEEIC0030 and UEECD0043 or UEECD0044, UEECD0046
UEEIC0048	UEECD0007, UEECD0043, UEECD0051, UEEIC0047, UEEIC0041, UEEIC0038, UEEIC0039, UEEIC0043, UEEIC0029, UEEIC0030, UEEIC0031 and UEECD0043 or UEECD0044, UEECD0046

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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 provides support for students in many areas, including Accommodation, Careers and Employability, Counselling, Disability Services, Financial Support Services, Student Advocacy, Indigenous Tutorial Support Services, International Student Support Services, Library Services, and VET Learner Support Services.

More information is available at Student Support - Life, Health and Wellbeing

CONTACT DETAILS

Electrotechnology and Plumbing

E. TAFE@cdu.edu.au
T. 08 8946 7505 (CAS)
W. https://www.cdu.edu.au/tafe

For further information regarding student life at CDU, please refer to https://www.cdu.edu.au/study/student-life.

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