

# UEE31220 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

To ensure you have the right skills and support to succeed in your course, 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 UEE31220 Certificate III in Instrumentation and Control, candidates are required to:

- Completion of or a 3<sup>rd</sup> year apprentice - UEE30820 Certificate III in Electrotechnology – Electrician  
OR
- Hold a current A-Grade Electrical Licence (unrestricted)  
OR
- Hold a Restricted Electrical Licence endorsed “*Instrumentation & Controls*”.

## DELIVERY DETAILS

Location(s)	Duration*	Study mode
Casuarina	1-2 Years full time 2-4 Years part time	Face to face Simulated Workplace

\* Duration will vary depending on how long a student takes to reach the required competency level.

## FEES

Fee Type	2025 Course Fees
NT Government Supported*	\$3,774.00 - \$3,922.00
Full Fee	\$13,933.20 - \$14,479.60

\*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. 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

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

## RECOGNITION OF PRIOR LEARNING (RPL)

RPL is a process that determines whether the skills, knowledge and experience you have gained through your previous study, work or life experience can count towards a vocational training qualification at CDU. For more information, refer to [VET RPL](#).

## RESOURCES

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

### Workplace Evidence Folder

During the course, students will be given guidelines to produce a “*Workplace Evidence Folder*” which will have to be submitted by the end of the course to demonstrate an understanding of Instrumentation & Controls in the workplace and show competencies.

**Note:** This course is not an Apprenticeship, it only delivers the units of attainment required to supplement the on the job training you will receive from your employer towards the completion of your Apprenticeship to become a qualified Instrumentation & Controls Technician.

## 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 a UEE31220 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.

### CORE UNITS

### POINTS

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
UEECO0009	Participate in instrumentation and control 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 cabling and tubing	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
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

## POINTS

ICTICT214	Operate application software packages	20
UEECD0011	Comply with scheduled and preventative maintenance program processes	20
UEEIC0036*	Set up water analysis measuring and control instruments	20
UEEIC0035*	Set up scientific analysis measuring and control instruments	20
UEEIC0037*	Set up weighting measuring and control instruments	20
UEEIC0046*	Troubleshoot process control systems	60
UEEIC0004*	Calibrate, adjust and test measuring instruments	40
UEECS0033	Use engineering applications software on personal computers	40

Units marked \* have pre-requisite requirements.

## 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 Employability, Counselling, Disability 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](#).

## CONTACT DETAILS

Electrotechnology and Plumbing

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T. 08 8946 7505 (CAS)- 08 8959 5465 (ASP)  
W. <https://www.cdu.edu.au/study/essentials>

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