

# 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.

Infection control, including COVID-19 measures and the associated restrictions, have been implemented to ensure the safety and well-being of students, lecturing staff and the wider community.

## ELIGIBILITY/ENTRY REQUIREMENTS

To ensure you have the right skills and support to succeed in your course, a Language, Literacy and Numeracy (LL&N) 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 require:

- To be Apprentices who have entered a Training Contract with Australian Apprenticeship Support Network NT.
- Working in the Instrumentation and Control industry.

## DELIVERY DETAILS

| Location(s)                  | Duration*   | Study mode   |
|------------------------------|---|--|
| Casuarina<br>Building Pink 9 | <b>FULL QUALIFICATION</b><br>Full time - 4 years<br>Part time - 6 years (negotiated between apprentice, employer and CDU).<br><br><b>For students who are:<br/>QUALIFIED ELECTRICIAN<br/>Or<br/>Electrical Apprentice who have completed 3rd year of their apprenticeship</b><br>May be completed in 12months, consisting of 6 one-week blocks & 1 two week block | Face to face delivery at the Campus, combining theory and practical training and assessments.<br><br>Self-paced Theory, completion of a Workplace Evidence Folder and a mixed delivery mode may be available with some units and need to be negotiated with the Team Leader.<br><br>A simulated practical workshop may be conducted with specific units. |

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

## 2022 FEES

The 2022 indicative fee for this course is between \$3,780.00 - \$3,920.00 for eligible students and receive an NT Domestic Subsidised place or between \$13,500 – \$14,000 for Domestic Full fee places. Actual fees will vary according to your choice of units.

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 2022.

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 [VET 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've gained through your previous study, work or life experience can count towards a vocational training qualification at CDU. For more information, [VET RPL](#).

## RESOURCES

Students are issued with a USB drive containing the recommended textbook for further reading.

## STUDY AND CAREER PATHWAYS

Further training pathways from this qualification include, but are not limited to, UEE40420 Certificate IV in Electrical – Instrumentation and other disciplines within Electrotechnology.

Possible occupations relevant to this qualification include:

- Electronics Tradesperson (Marine)
- Electrical Instrumentation Tradesperson
- Instrumentation Fitter

## QUALIFICATION CONTENT

To achieve a UEE31220 Certificate III in Instrumentation and Control a total of approximately thirty (30) units of competency (1060 weighting points) must be completed comprising twenty-three (23) core (920 weighting points) and approximately seven (7) elective units (140 weighting points) as detailed in the packaging rules and listed below.

## CORE UNITS

### NOTE UNITS MARKED WITH \* HAVE PRE-REQUISITE REQUIREMENTS

|           |   |
|-----------|---|
| UEECD0007 | Apply work health and safety regulations, codes and practices in the workplace            |
| UEECD0016 | Document and apply measures to control WHS risks associated with electrotechnology work * |
| UEECD0019 | Fabricate, assemble and dismantle utilities industry components *                         |
| UEECD0020 | Fix and secure electrotechnology equipment *  |
| UEECD0043 | Solve problems in direct current circuits *   |
| UEECD0045 | Solve problems in multiple path extra-low voltage (ELV) a.c. circuits *                   |
| UEECD0051 | Use drawings, diagrams, schedules, standards, codes and specifications *                  |
| UEECO0009 | Participate in instrumentation and control work and competency development activities     |
| UEEIC0047 | Use instrumentation drawings, specifications, standards and equipment manuals             |
| UEEIC0041 | Solve problems in pressure measurement components and systems                             |
| UEEIC0038 | Solve problems in density/level measurement components and systems                        |
| UEEIC0039 | Solve problems in flow measurement components and systems                                 |

|           |   |
|-----------|---|
| UEEIC0043 | Solve problems in temperature measurement components and systems                                |
| UEEIC0021 | Find and rectify faults in process final control elements *                                     |
| UEEIC0022 | Install instrumentation and control apparatus and associated equipment *                        |
| UEEIC0023 | Install instrumentation and control cabling and tubing *  |
| UEEIC0029 | Set up and adjust PID control loops *   |
| UEEIC0030 | Set up and adjust advanced PID process control loops *  |
| UEEIC0013 | Develop, enter and verify discrete control programs for programmable controllers *              |
| UEEIC0031 | Set up and configure human-machine interface (HMI) and industrial networks *                    |
| UEEIC0048 | Verify compliance and functionality of instrumentation and control installations *              |
| UEERE0001 | Apply environmentally and sustainable procedures in the energy sector                           |
| UEERL0004 | Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring * |

## ELECTIVE UNITS

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

## 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

E. [student.central@cdu.edu.au](mailto:student.central@cdu.edu.au)  
T. 1800 061 963 (free call)  
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>.