UEE30820 Certificate III in Electrotechnology Electrician

DESCRIPTION

This qualification provides individuals with the skills and knowledge to select, install, set up, test, fault find, repair and maintain electrical systems and equipment in buildings and premises. It includes Electrical Regulatory Authority Council (ERAC), or their successor's, Essential Performance Capabilities for an 'Unrestricted Electrician's license'.

The skills and knowledge described in this qualification require a licence or permit to practice in the workplace where work is carried out on electrical installations which are designed to operate at voltages greater than 50 volts (V) alternating current (a.c.) or 120 V direct current (d.c.).

Competency development activities in this qualification are subject to regulations directly related to licensing. Where a licence or permit to practice is not held, a relevant contract of training through an Australian Apprenticeship, may be required. To obtain an Unrestricted Electrician's Licence in most jurisdictions the qualification must be completed as an apprenticeship or Trades Recognition Australia (TRA) pathway.

Where required for Licencing, the certification documentation issued must indicate if the qualification was completed as an apprenticeship or Trades Recognition Australia (TRA) pathway.

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 UEE30820 Certificate III in Electrotechnology, candidates require:

- To be an Apprentice who has entered a Training Contract with their employer and Australian Apprenticeship Support Network NT
- Hold an NT Apprentice Training Licence (Red Card) - https://electricallicensing.nt.gov.au/home

DELIVERY DETAILS

Location(s)	Casuarina, Alice Springs
Duration*	4 years
Study mode ^^	Face-to-face, Simulated workplace, workplace
Start Date/s ^	January 11, 2027 – December 10, 2027 A specific commencement date will be determined in consultation with the delivery team. Apprentices will receive an individualised call-up notification letter.

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Attendance	Stage 1 – 4 x 2-week blocks Stage 2 – 4 x 2-week blocks Stage 3 – 3 x 2-week blocks Stage 4 – 1 x 2-week block (Capstone) 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

FEES

Fee Type	2027 Course Fees
NT Government Supported*	$4,463.50 - $5,174.50
Full Fee	$16,622.30 - $19,270.10

*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.

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

Student workbooks are included in the course cost; however, students are required to obtain the appropriate and current textbooks and Australian Standards (as listed below):

- Electrical Fitter Technician
- Electrical Trade Principles 6th Edition (Steven Hanssen/Jeffrey Hampson) Cengage
- Electrotechnology Practice 6th Edition (Steven Hanssen/Jeffrey Hampson) Cengage
- AS/NZS 3000:2018 Electrical Installations "Wiring Rules"
- AS/NZS 3008:1.1.2017 Electrical Installations – Selection of Cables Part 1.1
- AS/NZS 3017:2022 Electrical Installations – Verification by Inspection and Testing

STUDY AND CAREER PATHWAYS

Further training pathways from this qualification include but are not limited to Certificate IV and Diploma level qualifications

Possible occupations relevant to this qualification include:

- Electrician
- Electrical fitter mechanic
- A Grade electrician

QUALIFICATION CONTENT

To achieve UEE30820 Certificate III in Electrotechnology Electrician a total of one thousand, one-hundred and ten (1,110) points must be completed comprising of nine-hundred and ninety (990) core points and one-hundred and twenty (120) general elective points as detailed in the packaging rules and listed below. The electives offered may vary between campuses.

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CORE UNITS

HLTAID009	Provide cardiopulmonary resuscitation	10
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
UEECD0044*	Solve problems in multiple path circuits	40
UEECD0046*	Solve problems in single path circuits	40
UEECD0051*	Use drawings, diagrams, schedules, standards, codes and specifications	40
UEECO0023	Participate in electrical work and competency development activities	60
UEEEL0003*	Arrange circuits, control and protection for electrical installations	40
UEEEL0005*	Develop and connect electrical control circuits	80
UEEEL0008*	Evaluate and modify low voltage heating equipment and controls	20
UEEEL0009*	Evaluate and modify low voltage lighting circuits, equipment and controls	20
UEEEL0010*	Evaluate and modify low voltage socket outlets circuits	20
UEEEL0012*	Install low voltage wiring, appliances, switchgear and associated accessories	40
UEEEL0014*	Isolate, test and troubleshoot low voltage electrical circuits	60
UEEEL0018*	Select wiring systems and select cables for low voltage electrical installations	60
UEEEL0019*	Solve problems in direct current (d.c.) machines	30
UEEEL0020*	Solve problems in low voltage a.c. circuits	80
UEEEL0021*	Solve problems in magnetic and electromagnetic devices	30
UEEEL0023*	Terminate cables, cords and accessories for low voltage circuits	40
UEEEL0024*	Test and connect alternating current (a.c.) rotating machines	50
UEEEL0025*	Test and connect transformers	30
UEEEL0039*	Design, install and verify compliance and functionality of general electrical installations	40
UEEEL0047*	Identify, shut down and restart systems with alternate supplies	20
UEERE0001	Apply environmentally and sustainable procedures in the energy sector	20
UETDRRF004*	Perform rescue from a live LV panel	20

ELECTIVE UNITS

UEEAS0007*	Assemble, mount and connect control gear and switchgear	40
UEEAS0009*	Mount and wire control panel equipment	40
UEEIC0013*	Develop, enter and verify discrete control programs for programmable controllers	60
UEEIC0041*	Solve problems in pressure measurement components and systems	40
UEEIC0047*	Use instrumentation drawings, specifications, standards and equipment manuals	40

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Unit	Prerequisite unit/s
UEECD0016, EECD0019, UEECD0020, EECD0046, UEECD0051, EERA0036, UEERA0059, UEEIC0013	UEECD0007
UEECD0044	UEECD0007, UEECD0046
UEEEL0003, UEEEL0024, UEEEL0025	UEECD0007, UEECD0019, UEECD0020, UEECD0051, UEEEL0020, UEEEL0023, UEEEL0019, UEEEL0021 and UEECD0043 or UEECD0044, UEECD0046
UEEEL00055	UEECD007, UEECD0019, UEECD0020, UEECD0051, UEEEL0003, UEEEL0020, UEEEL023, UEEEL0019, UEEEL0021, UEEEL0024, UEEEL0025 and UEECD0043 or UEECD0044, UEECD0046
UEEEL008, UEEEL0009, UEEEL0010	UEECD0007, UEECD0019, UEECD0020, UEECD0051, UEEEL0019, UEEEL0021, UEEEL0020, UEEEL0023 and UEECD0043 or UEECD0044, UEECD0046
UEEEL0012	UEECD0007, UEECD0019, UEECD0020, UEECD0051, UEECD0016, UEEEL0003, UEEEL0020, UEEEL0023, UEEEL0018, UEEEL0005, UEEEL0019, UEEEL0021, UEEEEL0014, UEEEL0008, UEEEL0009, UEEEL0010, UEEEL0024, UEEEL0025 and UEECD0043 or UEECD0044, UEECD0046
UEEEL0014, UEEEL0018	UEECD0007, UEECD0019, UEECD0020, UEECD0051, UEEEL0003, UEEEL0020, UEEEL0023, UEEEL0019, UEEEL0021, UEEEL0024, UEEEL0025, UEEEL0047 and UEECD0043 or UEECD0044, UEECD0046 UEECD0007, UEECD0019, UEECD0020, UEECD0051, UEEEL0003, UEEEL0020, UEEEL0023, UEEEL0019, UEEEL0021, UEEEL0008, UEEEL0009, UEEEL0010, UEEEL0024, UEEEL0025 and UEECD0043 or UEECD0044, UEECD0046
UEEEL0019	UEECD0007, UEEEL0021 and UEECD0043 or UEECD0044, UEECD0046
UEEEL0020	UEECD0007, UEEEL0021 and UEECD0043 or UEECD0044, UEECD0046
UEEEL0021	UEECD0007 and UEECD0043 or UEECD0044, UEECD0046
UEEEL0023	UEECD0007, UEECD0019, UEECD0020, UEECD0051 and UEECD0043 or UEECD0044, UEECD0046
UEEEL0039	HLTAID009, UEECD0007, UEECD0016, UEECd0019, UEECD0020, UEECD0051, UEEEL0003, UEEEL0005, UEEEL0008, UEEEL0009, UEEEL0010, UEEEL0012, UEEEEL0014, UEEEL0018, UEEEL0019, UEEEL0020, UEEEL0021, UEEEL0023, UEEEL0024, UEEEL0025, UEEEL0047, UETDRRF004 and UEECD0043 or UEECD0044, UEECD0046
UEEEL0047	UEECD0007, UEECD0019, UEECD0020, UEECD0051, UEEEL0003, UEEEL0020, UEEEL0023, UEEEL0019, UEEEL0021 and UEECD0043 or UEECD0044 UEECD0046
UETDRRF004	HLTAID009

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UEEAS0007, UEEAS0009	UEECD0007, UEECD0019, UEECD0020, UEECD0051, UEEEL0003, UEEEL0020, UEEEL0023, UEEEL0005, UEEEL0019, UEEEL0021, UEEEL0024, UEEEL0025 and UEECD0043 or UEECD0044 UEECD0046
UEEEL0014	UEECD0007, UEECD0051, UEEIC0047
UEEIC0047	UEECD0007, UEECD0051
UEEDV0005	UEECD0007, UEECD0019, UEECD0020, UEECD0051 and UEECD0043 or UEECD0044, UEECD0046

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

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T. 08 8946 7505 (CAS) 08 8959 5461 (ASP)
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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