ELECTROTECHNOLOGY AND ENERGY

Electrical trades and electronics influence almost every aspect of daily life. The digital age continues to create an unprecedented demand for electricians specialising in telecommunications, instrumentation, security and electronic control systems, and information technology. Studying at TAFE NSW means you'll always work closely with technology to maintain, repair, and create custom solutions. And you can even connect your electrotechnology studies to a valuable degree.

Job opportunities ^

The Electrotechnology industry in Australia, with an annual revenue of $81.22 billion in 2020-21, employs over 344,000 people in a wide range of sectors: mining, manufacturing, communications, construction, renewables, refrigeration, and air-conditioning.

Strong industry connections

TAFE NSW maintains partnerships with Transport for NSW, as well as peak industry bodies including the Master Electricians Australia.

Annual growth ^

(% to 2021) these occupations are expected to have an annualised growth rate of 7.0%

Forecast growth ^

The industry is expected to grow quite strongly to 7% in the coming five years with Telecommunications the strongest growth area.

QUALIFICATIONS YOU CAN EARN AT TAFE NSW

At TAFE NSW, you'll learn all you need to make a career in electrotechnology from industry expert teachers in specialised facilities. From certificates to advanced diplomas, there's a course to help you further your career in this energetic field.

Course	Code	Duration
Certificate II in Electrotechnology (Career Start)	UEE22011*	6 months
Certificate III in Electrotechnology Electrician	UEE30811*	4 years
Certificate III in Electrical Fitting	UEE33011*	3 years
Certificate III in Electronics and Communications	UEE30911*	4 years
Diploma of Electrical Engineering	UEE50411*	2 years
Advanced Diploma in Electrical - Engineering	UEE62211*	1 year
Certificate II in Electronics	UEE21911*	1 year (part time)
Advanced Diploma of Engineering Technology - Electrical	UEE62111*	2 years
Certificate III in Air-conditioning and Refrigeration	UEE32211*	3 years

Course	Code	Duration
Certificate IV in Industrial Electronics and Control	UEE40911*	36 weeks
Certificate IV in Electrical - Instrumentation	UEE40411*	36 weeks
Certificate III in Appliance Service	UEE32111*	2 years
Certificate III in Instrumentation and Control	UEE31211*	2 years
Certificate III in Security Equipment	UEE31411*	2 years (part time)
Certificate III in Electrical Fitting	UEE33011*	3-4 years
Certificate IV in Instrumentation and Control	UEE42211*	36 weeks
Certificate IV in Electrical - Rail Signalling	UEE41211*	36 weeks
Diploma of Air-conditioning and Refrigeration Engineering	UEE51211*	1 year

FEES FOR YOUR COURSE

A range of criteria apply for course fees, access to government subsidised training, student loans, payment by instalment, fee concessions, and fee exemptions that are available to eligible students. The training for all or some of the courses listed is subsidised by the NSW Government under Smart and Skilled funding. Visit tafensw.edu.au/enrol/fees.

^ Source: Electrical Services Industry Insights, AISC [https://nationalindustryinsights.aisc.net.au/industries/electrotechnology/electrical-services]
* This course is superseded. You can still enrol in this course, and you will be contacted if you need to transition into the next version when it is available.

ELECTROTECHNOLOGY AND ENERGY

SHORT COURSES YOU CAN STUDY AT TAFE NSW

TAFE NSW has a selection of short courses available to study, that can help you build the essential electrotechnology and energy skills needed to kickstart and grow your career, or to help you round out your résumé.

Short Course	Code	Duration	Included Units of Study
Statement of Attainment in Electrical Contracting and Estimating	900-81974	26 weeks	UEENEEC003B* Provide quotations for installation or service jobs. UEENEEC005B* Estimate electrotechnology projects. UEENEEC006B* Prepare tender submissions for electrotechnology projects. UEENEEE084A* Write specifications for electrotechnology engineering projects.
TAFE Statement in Re-Licensing for Electricians	800-27213	12 weeks	800-27213A Re-Licensing for electricians.
Statement of attainment in restricted-electrical safety testing of electrical cord connected equipment and cord assemblies	UEESS00098*	40 weeks	UEENEEE101A* Apply occupational health and safety regulations, codes and practices in the workplace. UEENEEP026A* Conduct in-service safety testing of electrical cord connected equipment and cord assemblies.
TAFE Statement in marine engineer's automation, electronics and electrical (AEE).	800-000476	6 weeks	800-000476A Operation & maintenance of marine electrical systems.
TAFE Statement in Electrotechnology capstone test refresher	800-000356	2 weeks	800-000356A Electrotechnology capstone test refresher.
Statement of attainment in ESI refresher-accredited service providers	900-82056	1 day	UETTDRRF09 Apply access procedures to work on or near electrical network infrastructure. UETTDRRF01 Apply ESI safety rules, codes of practice and procedures for work on or near electrical apparatus. UETTDRRF08 Perform EWP Controlled descent escape. UETTDRRF03 Perform EWP rescue. UETTDRRF02 Perform pole top rescue. UETTDRRF06 Perform rescue from a live LV panel. HLTAID009 Provide cardiopulmonary resuscitation. UETTDRRF10 Provide first aid in an ESI environment UETTDRRF11 Testing of connections to low voltage electrical networks.
Statement of attainment in design and install grid connected battery storage systems.	900-81288	1 week	UEERE4001 Install, maintain and fault find battery storage systems for grid connected photovoltaic systems. UEERE5001 Design battery storage systems for grid connected photovoltaic systems.
Statement of attainment in designing grid connected photovoltaic systems.	900-80935	20 weeks	UEENEEK125A* Solve basic problems in photovoltaic energy apparatus and systems. UEENEEK135A* Design grid connected photovoltaic power supply systems.
TAFE statement in regulatory safety refresher II	800-000326	1 day	800-0326W Ausgrid Safety Rules 800-0326Y Endeavour Energy Safety Rules 800-0326X Essential Energy Safety Rules
Statement of attainment in design and install grid connected photovoltaic systems	900-80934	26 weeks	UEENEEK125A* Solve basic problems in photovoltaic energy apparatus and systems UEENEEK135A* Design grid connection photovoltaic power supply systems UEENEEK148A* Install, configure and commission LV grid connected photovoltaic power systems

Visit our website for more short courses.

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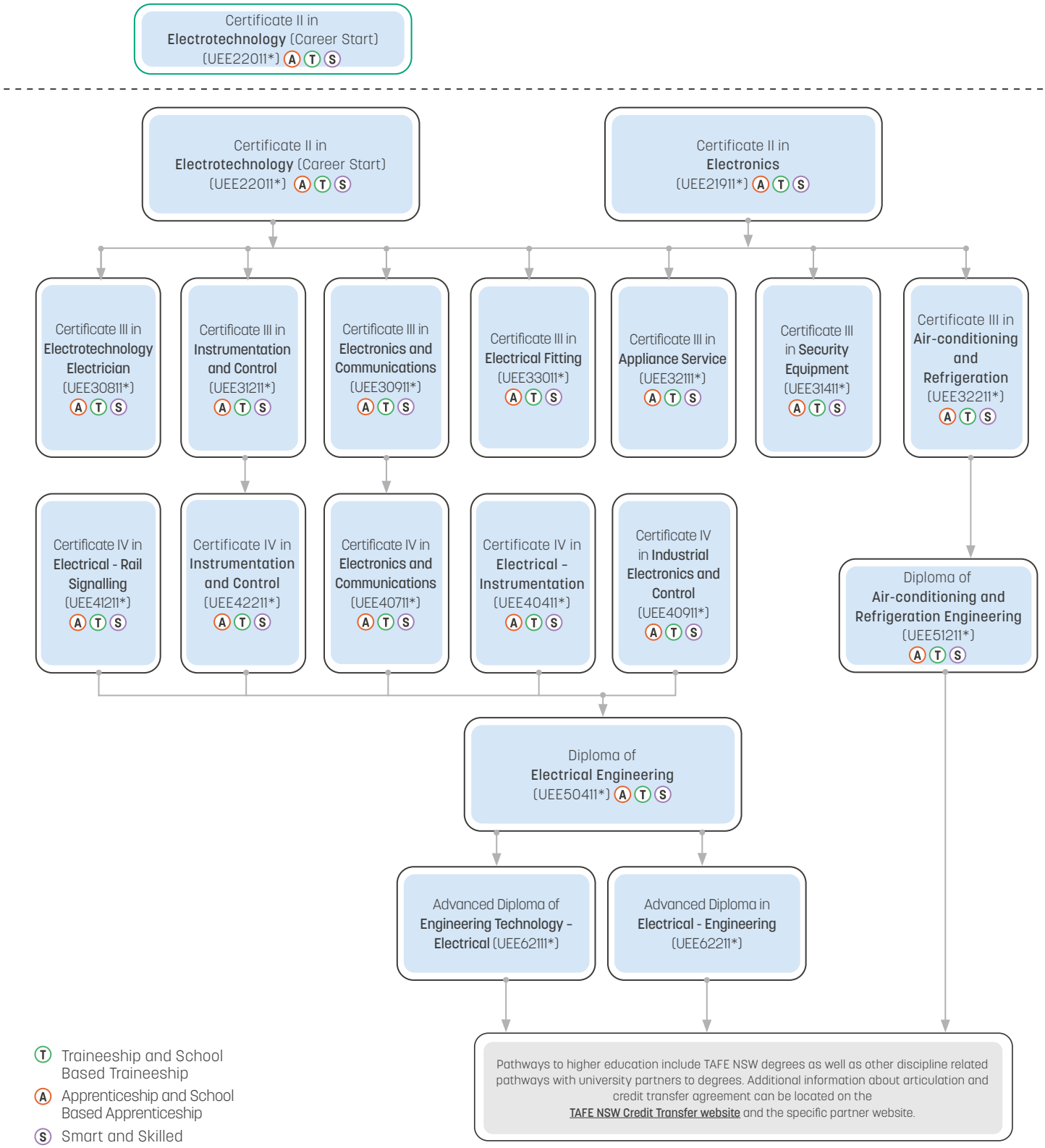
HOW YOU CAN GROW YOUR CAREER

When you study with TAFE NSW, there are any number of courses that lead to an even greater number of career opportunities. However, before you can earn certain qualifications, you may have to complete some pre-requisite courses. Below are some examples of career progression pathways you could follow.

TVET (SCHOOL)

ENTER DIRECTLY AT ANY POINT

CONDITIONAL ENTRY



- (T) Traineeship and School Based Traineeship
- (A) Apprenticeship and School Based Apprenticeship
- (S) Smart and Skilled

FOR MORE INFORMATION CONTACT 131 601

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