Engineering
Pre-Apprenticeships

Gear Up for the Future
Gain an edge when competing for an apprenticeship by gaining basic skills in electrotechnology, plumbing, refrigeration and air-conditioning.
Graduate Profile

‘The program at RMIT has been really convenient and great at providing me with an understanding of an even wider range of things than I think I’d get from just on-the-job training alone.

‘My pre-apprenticeship at RMIT helped me find an apprenticeship role and I’m now studying my Certificate III—well on my way to becoming a fully-qualified electrician.’

Matt Turner (cover image)
Certificate II in Electrotechnology Studies (Pre-Vocational)
WHAT IS A

Pre-Apprenticeship?

As the name suggests, pre-apprenticeships are programs that will prepare you to undertake an apprenticeship. Pre-apprenticeships teach a blend of theory and practical skills and are designed to give you a sense of what the real-life working environment will be like.

Normally a pre-apprenticeship:
— does not require you to have employment before you start
— runs over the course of a few months
— covers the basic principles and skills in your trade area
— can reduce the amount of study time required for a Certificate III apprenticeship.
  In some cases, it can reduce your apprenticeship study time by up to a year.

In many instances, undertaking a pre-apprenticeship can help you find employment for an apprenticeship program. Many employers prefer to take on apprentices who have completed a pre-apprenticeship because:
— Pre-apprentices have proven their enthusiasm for their field
— They already know the basic principles of the trade, so can contribute to the employer right away
— They are familiar with most the tools that the trades uses and many of the typical situations that come up day-to-day and
— They have had the opportunity to receive occupational health and safety training and are likely to already have a Construction Induction card.

RMIT offers Certificate II pre-apprenticeships in three disciplines:
1. Electrotechnology Studies
2. Plumbing

Further information
School of Engineering (TAFE)
Building 57, Level 5
115 Queensberry St
Carlton VIC 3053, Australia
Tel. +61 3 9925 4468
Fax. +61 3 9925 4377
Email: engineering- tafe@rmit.edu.au
www.rmit.edu.au/engineeringtafe
Entry Requirements
All three RMIT pre-apprenticeship programs have the same entry requirements.
You must be 16 years old or above when you apply. You will be required to have a minimum of Year 10 or equivalent literacy and numeracy skills based on Australian secondary school norms.
You must be an Australian or New Zealand citizen, or permanent resident, to apply for this program.
As part of the selection process, you will be required to participate in an assessment of your literacy, numeracy and mechanical reasoning skills. The exam is multiple choice and is usually hosted on RMIT’s City campus.
Further information regarding the entry assessment will be forwarded to applicants, after RMIT receives your application.

How to Apply
If you’re interested in applying for one of RMIT’s trades pre-apprenticeship programs, you can fill out an expression of interest form on the RMIT website www.rmit.edu.au/engineeringtafe/preapprenticeships. Just select the pre-apprenticeship you’re interested in from the list and submit your form. If you are interested in more than one pre-apprenticeship, you will need to fill out the form once per program.
When a new intake near commencement, an RMIT representative will contact you and guide your application from there.

Fees
Please refer to the website for the most up-to-date fee information www.rmit.edu.au/programs/fee/tafe
Some students may be entitled to a concession on their tuition fees.

Construction Induction Card (CI) course
In all three RMIT pre-apprenticeship programs, you will also be given the opportunity to undertake a Construction Induction course. In the Plumbing program, this is mandatory.
This course will enable you to obtain your Construction Induction card (CI card) that proves you’ve completed a general occupational health and safety induction specifically for the construction industry. This card is compulsory to work on a construction site.
You will receive a “statement of attainment” from RMIT when you complete the course. This statement can be used in place of your CI card if you find work on a construction site in the time between completing the course and your CI card being issued by WorkSafe.
The course is offered during your regular pre-apprenticeship timetable but is considered to be a separate course and attracts an additional fee. A photo ID is required at the time of your application.
Electrotechnology Studies

Power up the Future

Award Title
Certificate II in Electrotechnology Studies (Pre-Vocational)

RMIT Code
C2169

National Code
21887VIC

Campus
City campus

Duration
10–12 weeks full-time (up to 570 hours in total), 4–5 days a week. Intakes will be roughly every three months throughout the year (subject to adequate numbers), beginning in February.

URL
www.rmit.edu.au/programs/c2169
The Certificate II in Electrotechnology Studies (Pre-vocational) is structured to give you an edge when competing for employment as an apprentice or trainee in the electrical, instrumentation and electronics field.

This program is considered by most employers as essential, prior to commencement of employment. It provides pathways into other vocational programs and further studies up to diploma level.

Career Outlook
This program prepares you for an electrical apprenticeship and allows you to gain experience in the electrical industry.

Trades-people in these fields may be employed as:
- Systems electricians—on domestic, residential and heavy industrial buildings
- Instrument technicians—on measuring, process control and scientific instruments
- Electronic tradesperson—providing electrical installation, repair maintenance, modification and testing of electrical/electronic systems.

Professional Recognition
This qualification is recognised by the Electrical Trades Union (ETU) and the National Electrical and Communications Association (NECA).

Pathway
Students who successfully complete the program will receive advanced standing for half of the first year of the Certificate III in Electrical apprenticeship.

A high percentage of students successfully find an apprenticeship within six months of completing this program and some students may even find a formal training opportunity while still studying this program.

For further information visit www.rmit.edu.au/engineeringtafe

Program Structure
In our 10–12-week Certificate II in Electrotechnology Studies (Pre-vocational) program, you’ll study courses to learn skills like:
- Attaching cords and plugs to electrical equipment for connection to a single phase 250 volt supply
- Carrying out preparatory electrotechnology work activities
- Conducting in-service safety testing of electrical cord assemblies and cord connected equipment
- Dismantling, assembling and fabricating electrotechnology components
- Documenting occupational hazards and risks
- Fixing and securing equipment
- Identifying and selecting components/accessories/materials for electrotechnology work activities
- Performing computation
- Producing routine products for carrying out electrotechnology work activities
- Providing basic sustainable energy solutions for energy reduction in domestic premises
- Setting up and testing residential audio/video equipment
- Solving problems in extra-low voltage single path circuits
- Solving problems in multiple path DC circuits
- Using drawings, diagrams, schedules and manuals.
Award Title
Certificate II in Plumbing

RMIT Code
C2214

National Code
22138VIC

Campus
City campus

Duration
15 weeks full-time (up to 488 hours in total), which includes one day a week work experience (organised by you). Intakes will be roughly every three months throughout the year (subject to adequate numbers), beginning in February.

URL
www.rmit.edu.au/programs/c2214
The Certificate II in Plumbing pre-apprenticeship is designed for people who are considering a career in the plumbing industry. It prepares you for employment as apprentices in the plumbing trade.

The program provides skills and knowledge to enhance employment prospects. It helps to develop social and personal skills relevant to the workplace as well as providing an understanding of the nature of the work and conditions. You will gain a recognised qualification and, where appropriate, credit towards further education and training.

**Career Outlook**

This program prepares you for a plumbing apprenticeship and allows you to gain experience in the plumbing industry.

Plumbing trades-people may be self-employed, employed in small firms, or employed in large construction firms.

A high percentage of students successfully find an apprenticeship within six months of completing this program and some students may even find a formal training opportunity while still studying this program.

**Pathway**

Students who successfully complete the program will receive advanced standing in the first year of the Certificate III in Plumbing apprenticeship.

This program will also provide graduates with pathways into other vocational programs.

For further information visit www.rmit.edu.au/engineeringtafe

---

**Program Structure**

This program consists of 19 core courses. The follow are examples of the courses offered:

- Building Structures
- Calculations for the Building Industry
- Career Pathways for the Plumbing Industry
- Hand and Power Tools in Plumbing
- Intro to Cutting and Welding
- Plumbing Fixtures, Fitting and Appliances
- Sheet Metal Practices
- Tubes and Pipes Plumbing
- Workplace Communication
- Workplace Safety and Environment.
Refrigeration and Air-Conditioning

Open Doors to Cool Careers

Award Title
Certificate II in Engineering (Refrigeration and Air-Conditioning)

RMIT Code
C2157

National Code
MEM20105

Campus
City campus

Duration
14 weeks full-time (up to 360 hours in total), which includes one day a week work experience (organised by you). Intakes will be roughly every three months throughout the year (subject to adequate numbers), beginning in February.

URL
www.rmit.edu.au/programs/c2157
RMIT’s Certificate II in Engineering (Refrigeration and Air-Conditioning) pre-apprenticeship is a 14-week program specifically designed to prepare students for an apprenticeship in this dynamic and competitive industry.

Career Outlook
Refrigeration and Air-conditioning continues to be a diverse and highly in-demand trade. Qualified mechanics in the fieldwork across a range of industries including commercial food storage, transport refrigeration, industrial processing systems, mechanical maintenance, electrical wiring and many more.

Students of the Certificate II in Engineering (Refrigeration and Air-conditioning) typically go on to apprenticeships in refrigeration and air-conditioning and can proceed to RMIT apprenticeship and training courses such as the Certificate III in Air-conditioning and Refrigeration.

A high percentage of students successfully find an apprenticeship within six months of completing this program and some students may even find a formal training opportunity while still studying this program.

Pathway
Students who successfully complete the program will receive advanced standing for the refrigeration and air-conditioning apprenticeships.

Program Structure
This program consists of five core courses and a selection of specialised courses.

Skills taught during the program include:
- Apply principles of occupational health and safety in the work environment
- Dismantle, replace and assemble engineering components
- Perform brazing and/or silver soldering
- Perform electrical/electronic measurement
- Perform engineering measurements
- Perform routine gas metal arc welding
- Test, recover, evacuate and charge refrigeration systems
- Use hand tools
- Use power tools/hand held operations
- Work with others in a manufacturing, engineering or related environment
Disclaimer: The information contained in this guide is subject to change without notice. It is the responsibility of the student to check and confirm all general and specific program information prior to lodging an application for enrolment. For the most up-to-date program information, please refer to the RMIT University website. Visit www.rmit.edu.au. This guide is designed for Australian and New Zealand citizens and permanent residents of Australia. TAFE programs are delivered with Victorian and Commonwealth funding for eligible students.