

COURSE CODE

UEE51211

COURSE

## Diploma of Air-conditioning and Refrigeration Engineering

ENROL TODAY

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### WHY CHOOSE TAFE NSW?



**Opens career doors.** Our industry relationships lead many students directly into work with a range of employers including agencies, studios, galleries and fashion houses.



**Global prospects.** TAFE NSW graduates possess the technical knowledge, creative-thinking and specialised skills that are highly sought after by employers around the world.



**State-of-the-art facilities.** Purpose-built creative studios and industry standard software mean you will master the same tools of the trade as leading professionals.



**Industry exposure.** TAFE NSW partners with industry to provide you with hands-on experience through networking, sponsor programs, competitions, talks, lectures and other creative industry events.



**Recognised and respected.** TAFE NSW has built its reputation on delivering trusted, industry aligned and nationally recognised training for over 130 years.

# Diploma of Air-conditioning and Refrigeration Engineering

National Course Code: UEE51211 | TAFE NSW Code: UEE51211-01V03-20ULT-051

Qualification Level	Diploma
Study Type	PT Evening
Course Start Date	Enquire Now
Hours Per Week	10
Duration	2 Years
Delivery Locations	Ultimo, Main Campus
Course Fees	<b>Subsidised Prices</b> First Qualification: \$7,350.00 Subsequent Qualification: \$8,260.00
Course Features	Nationally Recognised Training This training is subsidised by the NSW Government VET Student Loans Available

## Course Description

Before you enrol in this course you must contact the campus or campuses of your choice for details of information sessions and other procedures that may apply. Compulsory attendance at an information session may apply.

This course is for air-conditioning and refrigeration engineering technicians. You will learn how to develop systems, select equipment, and commission, maintain and diagnose faults/malfunctions of refrigeration systems and equipment that apply to commercial food storage and preservation and air conditioning and air distribution equipment and special applications.

The course also includes regulatory requirements for purchasing and handling refrigerants.

Note: The Ozone Protection and Synthetic Greenhouse Gas Legislation Amendment Bill 2003 and the Ozone Protection and Synthetic Gas Management Regulations apply to this qualification.

## Entry Requirements

When you study with TAFE NSW, we want you to succeed. Entry requirements allow us to make sure that

you have the right pre-existing knowledge and skills to achieve your chosen qualification. You will need to provide evidence that you meet the requirements listed in this section.

#### ENTRY REQUIREMENTS

To be eligible for this course, you will need to demonstrate the following:

- Completion of the Certificate III in Air-Conditioning and Refrigeration or its equivalent

#### Evidence required:

- The transcript or Certificate of your Certificate III in Air-Conditioning and Refrigeration or its equivalent

#### IS THIS COURSE RIGHT FOR YOU

To be prepared for this course, it is recommended that you have:

- Dedication and commitment to furthering your career in Air-Conditioning and Refrigeration
- Reliability and time management skills

If you need help preparing for study, contact us about your options.

#### LICENSING REQUIREMENTS

This is a licensed occupation. NSW Fair Trading is the licensing and regulatory authority for trades and contractor authorities in NSW. Further information can be found on their website.

#### ADDITIONAL REQUIREMENTS

With 130 locations across the state, TAFE NSW tailors qualifications to meet the needs of the local community and specific student groups (like apprentices, fast-tracked and online students). To make sure this course is the right fit for you, we will need you to demonstrate that you can meet the additional requirements below.

To be enrolled in this course, you need to be able to provide evidence that you have:

- Learners require a Certificate III or equivalent qualification in Air-Conditioning & Refrigeration to enter into this program. The delivery of this program is a prorate of the full qualification as defined by the training package.

To successfully complete this course, you will need:

- All online assessments and assignments to be submitted by due dates. It is a student's responsibility to submit RPL or credit transfer evidence for their CIII qualification.

## Information Sessions and more about the course

#### INFORMATION SESSIONS

In lieu of Info Session students are advised to contact HTs (Russell Farnham or Grant Swanson) via their TAFE emails for further info and Timetable. Also they can contact the section on +612 9217 5665 or +612 9217 3240

#### STUDY COMMITMENT

This is a part-time blended course. You will need to attend approximately 7 hours of class, over 2

evenings a week, for 72 weeks. As well as the in-class component, you will need to complete approximately 3 hours of other study per week.

You may also be required to complete approximately 6 hours of additional study each week outside of class hours, including private study, online Moodle activities, research and assignment preparation.

## IS THIS COURSE RIGHT FOR YOU?

This course offering is designed for people who:

All candidates in the target group must have completed a Certificate III in Air-Conditioning & Refrigeration or equivalent.

- Refrigeration & Air Conditioning Trades supervisors.
- HVAC& Refrigeration project managers
- Existing Air-Conditioning & Refrigeration workers who wish to upgrade to a paraprofessional skills level.

## SERVICES AND STUDY SUPPORT

We offer student services and study support to ensure you can achieve your goals. Learn about TAFE NSW [Student Services](#)

As a TAFE NSW student in this course, you will have access to:

- LinkedIn Learning (formerly Lynda.com)
- Smarthinking - after hours online study support service
- Easy computing online short courses
- Access to local TAFE libraries
- Accessibility and Disability Support Services
- Access to Read&Write learning support software at TAFE and at home

## Attendance

To keep you safe while studying, some of our face to face classes may be replaced with online or connected learning. We have also modified our face to face classes to meet physical distancing requirements and increased cleaning on campus. As restrictions ease, the way you attend your class may change again. If work placement and the demonstration of practical skills are requirements of your course, due to the impacts of COVID-19 there may be a delay or modification in being able to undertake these aspects of your course in the planned timeframe. Be assured, we'll keep you informed every step of the way.

This course is currently scheduled on Monday and Wednesday from 5.30pm to 9.00pm. This timetable may change and will be confirmed by your teacher.

## Fee Details

## SMART AND SKILLED FEES

This course is government-subsidised, meaning you pay a portion of the full course fee to TAFE NSW and the NSW Government will pay the balance. However, you must meet certain eligibility criteria for this to apply.

Depending on your previous qualifications and experience, your fee may be less than the maximum fee quoted. Your actual fee and eligibility for concession/exemption will be calculated and confirmed during the enrolment process.

For further information about eligibility and explanations of the different fee categories, visit [Are You Eligible?](#)

## PAYMENT OPTIONS AND ASSISTANCE

This course is approved for a Commonwealth VET Student Loan (VSL). If you meet the VSL eligibility and academic suitability requirements, you are able to apply to the Commonwealth for a loan to cover all or part of your course fee. We will ask you whether you would like to apply for a VET Student Loan when you enrol and advise you of the process.

**To complete your VET Student Loan application, you will need to provide:**

- Your Tax File Number (TFN). If you don't have a TFN, [click here](#) for information on how to apply for one. You can complete your loan application with a Certificate of Application for a TFN, but must provide your TFN as soon as it is issued. If you don't provide your TFN before your first census day, you will need to pay the tuition fees for that unit of study.
- Your Commonwealth Higher Education Student Support Number (CHESSN). If you have previously accessed a loan via the Higher Education Loan Program (HELP), either at TAFE or university, you will already have a CHESSN. You must use the same CHESSN whenever you access a student loan. If you don't have CHESSN, we will allocate one on your behalf.

**To be eligible for a VET Student Loan, you will need to be assessed as academically suitable to undertake high level VET study. You will need to provide:**

- A copy of your Australian Year 12 Certificate; OR
- A copy of a certificate showing that you have been awarded a qualification at level 4 or above in the Australian Qualifications Framework (where the language of instruction was English). If you previously completed a Certificate IV or higher qualification at TAFE NSW, just let us know where and when you studied in your application; OR
- Display competence at Exit Level 3 in the Australian Core Skills Framework in both reading and numeracy through an approved Language, Literacy and Numeracy test. We will let you know if this is required once you apply.

If you intend to apply for a VET Student Loan, it's important you know your [student obligations](#).

Find out more about [VET Student Loans](#)

Direct payment by Unit of Study instalments is available for this course.

The Units of Study and associated fees for this course are detailed above. Fees are charged on the census day for each Unit of Study. To secure a loan for part or all of your course, you must be eligible and submit a valid application to the Commonwealth for a VET Student Loan. You may withdraw prior to the census date without incurring a fee.

## READ BEFORE YOU ENROL

Learn about TAFE NSW [Fees](#)

Learn about TAFE NSW [Payment/Funding](#)

## RECOGNITION

Recognition is a process of acknowledging previously completed qualifications, skills, knowledge or experience relevant to your course. This may reduce the amount of learning required, reduce your course fees and allow you to achieve your qualification faster.

Learn about Recognition at TAFE NSW [Recognition](#)

## How to Enrol

Enrolments for this course have now closed.

[Enquire now](#) and we will contact you when enrolments open. Visit our [Online Courses](#) to view our range of study options that you can start anytime.

## Units

UEENEEP012A	Disconnect / reconnect composite appliances connected to low voltage installation wiring
UEENEEI04A	Use engineering applications software on personal computers
UEENEEE038B	Participate in development and follow a personal competency development plan
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components
UEENEEE103A	Solve problems in ELV single path circuits
UEENEEE105A	Fix and secure electrotechnology equipment
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures
UEENEEE124A	Compile and produce an energy sector detailed report
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work
UEENEEJ102A	Prepare and connect refrigerant tubing and fittings
UEENEEJ103A	Establish the basic operating conditions of vapour compression systems
UEENEEJ104A	Establish the basic operating conditions of air conditioning systems
UEENEEJ106A	Install refrigerant pipe work, flow controls and accessories
UEENEEJ107A	Install air conditioning and refrigeration systems, major components and associated equipment
UEENEEJ108A	Recover, pressure test, evacuate, charge and leak test refrigerants
UEENEEJ109A	Verify functionality and compliance of refrigeration and air conditioning installations

UEENEEJ110A	Select refrigerant piping, accessories and associated controls
UEENEEJ111A	Diagnose and rectify faults in air conditioning and refrigeration systems and components
UEENEEJ113A	Commission air conditioning and refrigeration systems
UEENEEJ127A	Establish the thermodynamic parameters of refrigeration and air conditioning systems
UEENEEJ129A	Establish heat loads for commercial refrigeration and/or air conditioning applications
UEENEEJ153A	Find and rectify faults in motors and associated controls in refrigeration and air conditioning syst
UEENEEJ164A	Analyse the operation of HVAC air and hydronic systems
UEENEEJ165A	Evaluate thermodynamic and fluid parameters of refrigeration systems
UEENEEJ170A	Diagnose and rectify faults in air conditioning and refrigeration control systems
UEENEEJ192A	Analyse the psychrometric performance of HVAC/R systems
UEENEEJ194A	Solve problems in low voltage refrigeration circuits
UEENEEK145A	Implement and monitor energy sector environmental and sustainable policies and procedures
UEENEEP017A	Locate and rectify faults in low voltage composite appliances using set procedures
UEENEEP024A	Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply
UEENEEP025A	Attach cords, cables and plugs to electrical equipment for connection to 1000 Va.c. or 1500 Vd.c. su
UEENEEJ134A	Design heating, ventilation and air conditioning (HVAC) systems and select components
UEENEEJ135A	Design control systems for refrigeration or heating, ventilation and air conditioning systems

## Career Opportunities

Air-conditioning and refrigeration engineering technician.