



Certificate IV in Engineering

MEM40105

- Nationally Recognised Training
- Apprenticeship Allowed
- This training is subsidised by the NSW Government

DURATION
2 Years

ATTENDANCE
Part Time

DELIVERY
Combination

START DATE
Enquire Now

LOCATION
Ultimo, Main Campus
651-731 Harris Street, Ultimo

STUDY COMMITMENT
3.5 Hours Per Week

How much time on average each week you will need to commit to successfully complete this course.

Hours include class attendance/participation, directed study, and any required work placements.

You may also need to do additional hours of self-directed study.

Studying with TAFE NSW

With over 25,000 industry connections*, teachers experienced in the latest industry trends plus state-of-the-art facilities, it's easy to see why TAFE NSW is Australia's largest training provider. Want even more reasons to study with us?

*TAFE NSW current employer database as of May 2017



85.9%
EMPLOYER SATISFACTION

NSW EMPLOYERS ARE VERY SATISFIED WITH THE QUALITY OF THE NATIONALLY RECOGNISED TRAINING WE DELIVER*



80%
OF GROWTH AREAS COVERED

WE OFFER TRAINING IN 80% OF THE OCCUPATIONS PREDICTED TO HAVE THE GREATEST GROWTH OVER THE NEXT 5 YEARS^



83%
GRADUATE SATISFACTION

TAFE NSW ENJOYS A RATING WELL ABOVE THE NATIONAL AVERAGE FOR THE OVERALL QUALITY OF TRAINING#



93%
WOULD RECOMMEND TAFE NSW

AS A TRAINING PROVIDER - NATIONAL VET AVERAGE 90%**

Source: ^ employment.gov.au, * Graduate Satisfaction Survey - Undergraduate [Quality Indicators of Teaching and Learning (QILT) - Course Experience Questionnaire 2017-2018]. * NCVET, Survey of Employers' Use and Views of the VET System, 2017. ** VET - NCVET Graduate Outcomes Survey 2018

OVERVIEW

The nationally accredited Certificate IV in Engineering equips you with the skills you need to work as an advanced engineering tradesperson. With TAFE NSW, you will learn fitting and metal fabrication and how to work collaboratively with others in a manufacturing or engineering environment.

LEARN NEW SKILLS

Through a mix of theory and practical coursework, learn to:

- Interpret and create engineering measurements and computations
- Perform welding and machining
- Apply quality procedures and systems
- Interact with computing technology
- Operate with environmentally sustainable work practices
- Work within occupational health and safety standards

DEVELOP YOUR TALENT

Develop the attributes to help you get ahead:

- Initiative
- Patience
- Cognitive flexibility
- Effective communication skills
- Teamwork skills

ACHIEVE YOUR GOALS

Completing this course provides you with:

- A strong pathway to continue your study and enhance your career opportunities
- Skills and knowledge to start your own business

Career opportunities:

- Mechanical engineering draftsman
- Pressure welder
- Advanced fabrication technician
- Advanced mechanical maintenance technician
- CAM programmer

GROW YOUR CAREER

Take your career further with the:

- Diploma of Engineering - Advanced Trade

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

TAFE NSW offers the Certificate IV in Engineering as an apprenticeship. There may also be options available for you to study as a non-apprentice.

Apprenticeship

To be eligible for this course, you must:

- Be employed as an apprentice in the engineering industry as evidenced by a letter of support from your employer
- Submit your Training Plan Proposal (TPP) with your application

Non-apprenticeship

There may be options available for you to study as a non-apprentice. Enquire today, and one of our Apprenticeship and Traineeship team will help you understand any eligibility or entry requirements that apply.

COURSE SUCCESS REQUIREMENTS

During your study, you will need to meet specific requirements to complete your coursework.

You need to meet the following requirements to be able to undertake work placement. Your teacher will let you know when you need to provide evidence of:

- A general construction induction card (commonly known as a white card) - you will need this before you can enter a construction site

WORK PLACEMENT

There is no work placement requirement for this qualification. As an apprentice, you will gain your experience on-the-job with your employer.

If you are enrolling as a non-apprentice, you need to be in relevant employment or have access to appropriate simulated workplace environments in order to meet the course completion requirements.

You are responsible for arranging your own work placement. Our team can offer support and guidance to assist you.

IS THIS COURSE RIGHT FOR YOU?

To be prepared for this course, we recommend that you have:

- A Certificate III in Engineering Fabrication or have equivalent industry experience
- An intermediate fitness level to manage the physical demands of the role
- The ability to work at heights and confined spaces
- The ability to work early morning, late evening, or weekend hours if required

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

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 are:

- Local entry Requirements - Certificate III or Trade Certificate

To successfully complete this course, you will need:

- To demonstrate skills and performance evidence requirements in a simulated environment at a TAFE campus that is reflective of industry standards and activities.

OTHER COURSE INFORMATION

INFORMATION SESSIONS

There are no information sessions currently scheduled for this course.

STUDY COMMITMENT

This is a Part Time Evening Blended course. You will need to attend approximately 3.5 hours of class, over 1 evening a week, for 2 years.

You may also be required to complete approximately 8.3 hours of additional study each week outside of class hours, including self directed assessment preparation, review of structured learning and workplace learning

IS THIS COURSE RIGHT FOR YOU?

This course offering is designed for people who:

- Hold a Certificate III in Engineering Fabrication or equivalent.

MORE ABOUT THIS COURSE

There is a new version of this course coming soon. If it is available before you complete your studies, you will be notified of your options and may be transferred to the new course.

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

The way you learn may change during your enrolment to ensure the best learning experience or to keep you safe as COVID-19 restrictions change, and some of our face to face classes may change to online or virtual classroom learning. Also, to ensure that we keep you safe while studying, we may modify our face to face classes to meet physical distancing requirements and increased cleaning on campus. If work placement and the demonstration of practical skills are requirements of your course, there may be a modification or delay in the planned timeframe due to COVID-19 impacts. Be assured, we'll keep you informed every step of the way.

This course is currently scheduled on Tuesday from 5.30pm to 8:30pm. This timetable may change and will be confirmed by your teacher.

FEE DETAILS

SUBSIDISED PRICES

FIRST QUALIFICATION *
\$3,280.00

SUBSEQUENT QUALIFICATION
\$3,820.00

APPRENTICESHIP **
\$2,000.00

CONCESSION
\$240.00

NON-SUBSIDISED PRICE

FULL FEE
\$18,310.00

*If you are 35 years old or over and are looking for work you may be eligible for the mature age workers **Fee-Free** scholarship which will be verified at enrolment.

You may be eligible for the NSW Smart & Skilled **Fee-Free Apprenticeship which will be verified at enrolment

WHAT DO THESE PRICES MEAN?

First Qualification Fee

Applies to a student who does not already hold a post-school qualification from any tertiary sector (TAFE, private provider or University), and includes any vocational (certificates, Diplomas, Advanced Diplomas) and higher education (degree) qualifications achieved in Australia or overseas previously.

Subsequent Qualification Fee

Applies to a student who already holds one or more post-school qualifications from any tertiary sector (TAFE, private provider or University), and includes any vocational (certificates, Diplomas, Advanced Diplomas) and higher education (degree) qualifications achieved in Australia or overseas previously.

Apprenticeship Fee

Eligible apprentices are exempt from fees when undertaking an apprenticeship under the NSW Government's Fee Free Apprenticeship. For apprentices who are not eligible, apprenticeship qualification fees are capped at \$2,000.

For more information visit the [Fee Free Apprenticeships](#) page.

Traineeship Fee

Applies to a student undertaking a traineeship qualification under a traineeship pathway, with fees are capped at \$1,000.

For more information visit the [Apprenticeships and Traineeships](#) page.

Concession Fees

Applies to eligible disadvantaged students who receive a specified Commonwealth Government welfare benefit or allowance. Concession fees are discounted, with flat fees applied across a qualification level.

For more information on concessions and exemptions, visit the [Smart and Skilled Fee Exemption and Concessions](#) page

on the *Smart and Skilled* website.

For more information on Smart and Skilled funding, visit the [Smart and Skilled](#) page.

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. Payment plans are available through TAFE NSW for Smart and Skilled eligible qualifications.

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

ADDITIONAL RESOURCES

You will need to provide for yourself the following resources which you will keep when you complete your study:

- Students must provide their own personal protective equipment (PPE).

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

UNIT CODE	UNIT DESCRIPTION
MEM12023A	Perform engineering measurements
MEM12024A	Perform computations
MEM13014A	Apply principles of occupational health and safety in the work environment
MEM14004A	Plan to undertake a routine task
MEM14005A	Plan a complete activity
MEM15002A	Apply quality systems
MEM15024A	Apply quality procedures
MEM16006A	Organise and communicate information
MEM16007A	Work with others in a manufacturing, engineering or related environment
MEM16008A	Interact with computing technology
MEM17003A	Assist in the provision of on the job training
MSAENV272B	Participate in environmentally sustainable work practices
MEM05005B	Carry out mechanical cutting
MEM05004C	Perform routine oxy acetylene welding
MEM05006C	Perform brazing and or silver soldering
MEM05007C	Perform manual heating and thermal cutting
MEM05008C	Perform advanced manual thermal cutting, gouging and shaping
MEM05009C	Perform automated thermal cutting
MEM05010C	Apply fabrication, forming and shaping techniques
MEM05011D	Assemble fabricated components
MEM05012C	Perform routine manual metal arc welding

MEM05015D	Weld using manual metal arc welding process
MEM05016C	Perform advanced welding using manual metal arc welding process
MEM05017D	Weld using gas metal arc welding process
MEM05018C	Perform advanced welding using gas metal arc welding process
MEM05019D	Weld using gas tungsten arc welding process
MEM05020C	Perform advanced welding using gas tungsten arc welding process
MEM05026C	Apply welding principles
MEM05036C	Repair/replace/modify fabrications
MEM05037C	Perform geometric development
MEM05042B	Perform welds to code standards using flux core arc welding process
MEM05043B	Perform welds to code standards using gas metal arc welding process
MEM05044B	Perform welds to code standards using gas tungsten arc welding process
MEM05045B	Perform pipe welds to code standards using manual metal arc welding process
MEM05046B	Perform welds to code standards using manual metal arc welding process
MEM05049B	Perform routine gas tungsten arc welding
MEM05050B	Perform routine gas metal arc welding
MEM05051A	Select welding processes
MEM05052A	Apply safe welding practices
MEM09002B	Interpret technical drawing
MEM10010B	Install pipework and pipework assemblies
MEM11011B	Undertake manual handling
MEM12007D	Mark off/out structural fabrications and shapes
MEM18001C	Use hand tools

MEM18002B

Use power tools/hand held operations

CAREER OPPORTUNITIES

Higher Engineering tradesperson or advanced engineering tradesperson at level C7 under the Metal, Engineering and Associated Industries Award.

NEXT STEPS

Need more information? Call our customer support team on 131 601 or [submit an enquiry](#)