

Setting the trend for the 21st century

Leaders in CAD / BIM education

Building Tomorrow TODAY

Innovation through construction technology

Digital solutions for a digital world

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CERTIFICATE III in CAD/DRAFTING

Benefits of e-learning

The Qualification

MSA30208 Certificate III in CAD/Drafting

This qualification is part of the MSA30208 Manufacturing Technologies Training Package serving the manufacturing industry. The award contains 11 units of competency, with a strong focus and agenda dealing with 21st design drafting techniques using high-end, industry standard CAD drafting and modelling software, and is underpinned by fundamental engineering principles and practices.

The Method

Exclusive ONLINE delivery medium

Digital Construction Academy delivers the course portfolio by **ONLINE** distance learning using a variety of multi-media and web-based platform for the delivery of all learning, teaching and assessment. This provides for an exciting and interactive learning experience for the student and allows for students to manage their own learning pace to fit around other commitment and continue working part, or even full time - tailor made to LEARN WHILE YOU EARN.

The Potential

Future Proof Your Career

Benefiting from extensive exposure to the very latest high-end CAD software not only prepares you with the most current and relevant skill set for industry, but also provides an opportunity for students to establish an acute awareness of the current and forthcoming trends in digital technologies applied to the fields of drafting and detailing. This qualification is ideal for opening doors into a range of engineering and drafting related employers as Drafters, Detailers, Design specialists, Construction Technicians and Associates. As a fully approved national qualification, the Certificate is recognized as a foundation qualification for those seeking to follow a CAD specialism into a variety of industrial disciplines.

**LEARN
WHILE YOU
EARN!**

**INFORMATION
GUIDE**

..... fostering excellence in the discovery,
interpretation and diffusion of knowledge

Course Framework

What Will I Study?

This fully approved national qualification provides an exciting opportunity for students who may be interested in, or passionate about drafting, design and general application to engineering roles.

CAD specialists and technicians play a key role in industry, and undertake a wide range of commercial and domestic projects. This course is widely generic and is ideally suited to those early in the career path, who are yet to define a future discipline, such as architecture and building, manufacturing, engineering, or product design.

There are 11 units of competency required to complete the Certificate. Though optional units in the framework do occasionally change at the discretion of the centre, the current course consists of:

In **SEMESTER 1**, you will be introduced to drafting office procedures, the information technology associated with drafting activities following and develop your first fundamental CAD skills using AutoCAD software.

MEM16006A Organise and communicate information
MEM160008A Interact with computer technology
MEM30031A Use computer aided design [CAD] systems to produce basic engineering drawings

In **SEMESTER 2**, you will be introduced to environmental influences in the design office, the requirements for apply quality approaches to workplace scenarios, and develop your CAD skills further into some 3D modelling.

MSS402051A Apply quality standards
MSAENV272B Participate in environmentally sustainable work practices
MEM30032A Produce basic engineering drawings

In **SEMESTER 3**, you will complete your Maths unit and be introduced to the fundamentals associated to building information modelling processes.

MEM30012A Apply mathematical techniques in an engineering manufacturing or related environment
MEM30008A Apply basic ergonomic and economic concepts to engineering designs or related environment
MEM30007A Select common engineering materials

In **SEMESTER 4**, you will complete your studies with a 'capstone' self-generated structural design project and compliment your skills with enhanced presentation skills

MSATC302A Assist in the design of a basic workplace layout
MEM30033A Use computer aided design [CAD] systems to create and display 3D models

NOTE: Students presenting with existing credits or following custom conditions for RPL will be presented with unique learning pathway information - pertaining to achievement of the above.



Entry Requirements

How do I get in and get started?

Candidates seeking entry to this course should possess:

- Completion of Year 10 studies with good passes in English and Maths [or equivalent] or
- An existing Certificate II in a relevant vocation qualification

All applications are assessed individually, and other qualifications or experience for mature entrants or other candidates may also be taken into account.

A fully ONLINE process is used for applications and enrolment, found on the website - just follow the **APPLY NOW** button.

How Do I Study ONLINE

What Do I Need?

We only generally expect that you have a suitable desktop or laptop machine capable of supporting CAD software, and have a good, stable, Internet connection.

This does not mean that it is necessary to purchase new or replace an existing machine - a reasonably well specified laptop with a minimum of 4Gb RAM will suffice, though a little more RAM is advisable, 8Mb or more, depending upon budget.



Just as important to have that good internet speed and connection!

In terms of other resources, we **strongly recommend** a headset and mic combination for web conferencing. Most reading material is generally provided, however some staff may refer to additional reading which is optional, and you may decide to buy the occasional book or other publication.



All physical learning and resource material needed on the Certificate is provided to enrolled students and covered in full by your tuition fees. This includes material in all formats delivered by online methods, including:

- audio learning material and tutorials
- video learning material and tutorials
- interactive software e-learning tutorials
- traditional, downloadable PDF and text material

All CAD software required is provided by Digital Construction Academy under educational license conditions. See below.

Your Contribution

It is reasonably expected that you will organise your physical study resource and study time management. We would also reasonably expect that you have note taking materials, and are always fully prepared and organised, especially for connected web class conference with your tutor.

Your tutor may refer to additional texts or reading. It is entirely at your discretion whether to explore these opportunities by purchasing books, magazine or electronic journals, or just simply by visiting your local library.

NOTE: Apple Mac computers are NOT ideally suited to the software used in the Course.

The Software Used

All your specialist CAD software is provided under educational license arrangements. You should adhere to Terms and Conditions of Use at all times - provided, educational software should **NEVER** be used for real world projects or any commercial activity.

In the Certificate III in CAD/Drafting, you will be exposed to the following:

- AutoCAD
- Tekla Structures

There may also be opportunities to explore other software types, such as Autodesk Revit or other applications.



DIRECT LIVE COMMUNICATION WITH TUTORS

We also provide **webinar class schedules** using screen sharing technologies and encourage students to make regular use of these opportunities to embellish and support their learning. They are also used extensively to provide demonstrations and investigate technical problems a student may be having.

Many students have a regular weekly session with their tutor.



At Digital Construction Academy - **YOU ARE NOT A DISTANCE LEARNER.** Your online tools provide a constant 24/7 line of communication with academic staff.

A Note on Scheduling and Attendance

Online education does provide the greatest degree of flexibility, and this suits those with additional influences on their lives, such as work commitments, family constraints and others. We understand these. We do ask, however, that you keep us informed. We would generally expect an 'average' student to be committing to about 8 hours of study each week. Weekly web meetings with a tutor will help in the organisation of this.

In regards to personal commitments, where you are faced with external obligations you cannot avoid, you should simply let us know, and we will try to accommodate where possible.

If you have planned holidays or other significant events coming up in your life, just let us know, with some warning - don't just disappear off the radar!!

How Do I Get Started

APPLY NOW

Follow the Apply Now links on the website. This will take you to an easy, online enrolment form. This is lodged in our electronic database, and once we have imported and verified the data, you will normally receive a Confirmation Letter to offer you a place on the Diploma, with or without conditions, and you should be informed at this stage if there are any unique learning conditions associated to your enrolment and induction.



Once you have accepted the offer, usually by return of an email message, you are then formally registered with us as an active student.

Based on the normal academic semester arrangements, or your unique learning pathway, whichever is indicated, the invoice for the first Semester group of units will be issued.

Invoice settlement is completed by bank transfer of funds and usually clears in 1 to 2 working days, after which you will receive your credentials for the Virtual Learning Environment.

Course & Unit Fees

Are always as published on the website. You will find in the Certificate III in CAD/Drafting area of the website, the most current fees for the period. Any adjustments to fees for Concession Rates, RPL or any other unique learning conditions, will have been indicated on your invoicing already.

Concession Rates

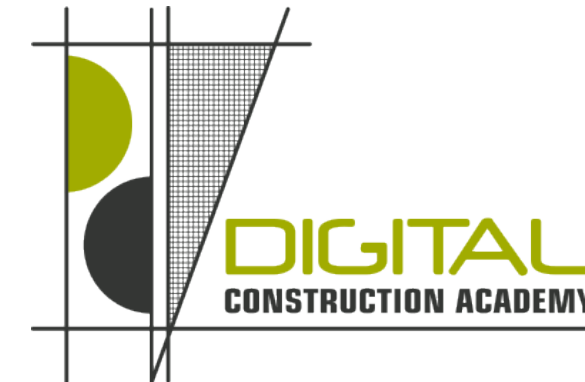
Are as fully published on the DCA Fee Page of the website.

RPL

All RPL information and costs is as published on the DCA RPL Page of the website.

Thank You for Your Interest in studying with

Digital Construction Academy
Nationally Recognised Training
RTO Number 31840



*.....fostering excellence in the discovery, interpretation and
diffusion of knowledge.....*

We will always strive to provide a helpful and friendly service

We will respond to your enquiries in a timely manner, normally same day, and always within 24 hours

We aim to give accurate timeframes on completion times

We will guide you through your studies so that you don't feel remote to the learning centre

No such thing as a stupid question

We will treat you with respect at all times

We will always be honest with you

If we make a mistake, we will admit it and ensure it is rectified

All fees and charges will be clearly provided, and the website will always indicate current rates

If you have any concerns, or other questions we will always be happy to discuss them

If you are ever unsatisfied with us in any way, we will endeavour to fully understand your point of view and work towards a positive outcome