



# Advanced Diploma of Engineering Technology (Robotics and Mechatronics)

CRICOS: 057756G, Course: 21622VIC

## Course Outline

This 2-year course provides high-level training for the manufacturing industry at the engineering associate level, specialising in robotics and mechatronics manufacturing. Students learn to design, engineer and maintain automated manufacturing equipment, robotics and related control and communication systems. Modern manufacturing employers require highly skilled and innovative graduates to design, install and maintain automated manufacturing and robotic systems.

This is a para-professional program accredited with Engineers Australia. It provides a high level of training in a range of topics to equip students with advanced skills and knowledge including: engineering drawing, workshop practices, sciences for modern engineering, mathematics, electro mechanical devices, modern robots, industrial digital electronics; industrial programmable logic controllers (PLC), manufacturing, industrial automation; manufacturing control concepts and emerging technology science.

## Intake

February

## Location

Chisholm Dandenong

## Admission

Equivalent IELTS 5.5

Equivalent Year 12

## Application Procedure

Apply direct to Chisholm or through a Chisholm authorised International Education Agent.

## Career Opportunities

Upon successful completion of the course students may apply for positions as Engineering Assistant, Technician or Engineering Technical officer in a wide range of manufacturing industries.

## Cost

\$11,300 per year + \$840 Materials Fee

## Further Study

Bachelor of Engineering Technology at Chisholm



## Subject Areas

- Modern manufacturing robotics
- Electro-mechanical devices
- Engineering maths
- Report writing and presentation skills
- Engineering computing
- Engineering drawing
- Computer Aided Drafting (CAD)
- Mechatronics Industrial
- PLC control
- Workshop practices Industrial automation.

## Assessment

Assessment is a combination of written and online assignments, tests, examinations and practical application projects.



Study in Melbourne, Australia

Chisholm Institute of TAFE CRICOS code 00881F



### Facilities

Chisholm has large technically advanced engineering facilities, which includes 4 huge workshops of approximately 500 square metres each. Training is based on practical, hands on work with access to the latest technology in a simulated work environment. In each practical class, there is a maximum of 14 students, with each student working at their own work station and machinery.

Chisholm has flexible teaching spaces and workshops that can be adapted to meet new and emerging skills and sustainability principles are embedded into the facilities and training programs.

### Location

The South East region of Melbourne is a major manufacturing hub in Victoria, with Dandenong at its centre. This area provides more than 40% of Victoria's total manufacturing output. Consequently, the manufacturing sector is a vital component of the Dandenong business community. This provides students with many opportunities for work experience and part time jobs in the industry that are close to the campus. As a result, we produce more employable graduates that are job ready once they finish their course.

### Flexible learning

The engineering department holds both day and evening classes, so there is more flexibility in how each student completes their course. Our Engineering courses follow competency based learning, and students can enrol at any time of the year.

### Quality Training

Students in Chisholm's Engineering courses gain genuine, advanced skills that are tailored for the current demands of the industry, and as a result, graduates are of a very high standard. In many cases, international classes are mixed with local students (apprentices), providing students with the experience of the Australian work place. Content and course delivery is identical to that of local students.

### Staff

Chisholm's Engineering staff are some of the state's most respected, highly skilled teachers and have vast experience in the engineering and manufacturing industry. All staff sit on industry boards including one teacher is also the chief WTIA (Welding Institute of Australia) inspector for Victoria. Our staff are often asked to consult on various projects for their expertise and specialist knowledge. Chisholm's Engineering staff are passionate about what they do, and genuinely care about each student they teach, long after they have graduated. They take the time to get to know their students, and help with the broad range of adjustments required when living in another country.



### Industry

Chisholm is well regarded in the engineering and manufacturing industry. Industry groups are consulted every year in the review of each course to ensure its currency the industry. Through this continual consultation, Chisholm is able to provide quality, endorsed training and delivers the skills required by industry.

### Environmental sustainability

In today's environment we are all conscious of the need to be greener, cleaner and more cost-effective. Environmental sustainability is embedded into our Engineering courses, to prepare tomorrow's workforce to contribute to a sustainable future. Our students are trained in ecologically sound principles resulting in diligent, environmentally aware, sought after graduates who are responsive to current and potential issues in the industry.



### Need more information?

Speak with an authorised Chisholm Institute agent, or

**Web:** [www.chisholm.edu.au/international](http://www.chisholm.edu.au/international)

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