



Diploma of Advanced Manufacturing

The Diploma of Advanced Manufacturing is an advanced apprenticeship program that will prepare you for the manufacturing jobs of the future.



The merging of cyber and physical production systems is being heralded as the Fourth Industrial revolution and will catalyse tremendous change and unleash value-creating potential for Australian manufacturing. Students of this Diploma will be at the forefront of that workforce development.

Students will be exposed to Industrial Internet of Things (IIoT), Cyber security technologies, computer aided design and computer aided manufacturing, Industry 4.0 fundamentals and project management.

The course also offers the exciting opportunity for students (who wish) to learn how Industry 4.0 manufacturing is being applied to the construction of uncrewed aerial vehicles, UAV (aka drones). Students will be able to undertake projects within this subject area, and work alongside researchers and Small to Medium Enterprises (SMEs) to construct and test UAV.

PATHWAYS

With this Diploma, you qualify for entry-level engineering roles, or you can continue onto other engineering and IT degree courses, such as:

- CDU's **Associate Degree in Engineering, Bachelor of Engineering Science or Bachelor of IT.**
- RMIT's **Associate Degree in Digital Technologies or Bachelor Aerospace Engineering.**



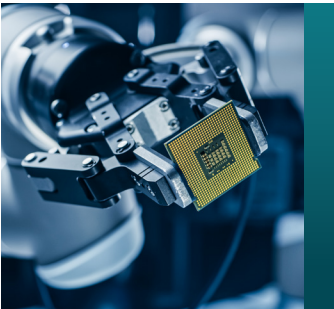
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CAREER OPPORTUNITIES STATEMENT

After completion of this qualification, graduates may gain employment in roles, including:

- Drone Technician, Designer, Maintenance Controller
- Aviation sector
- Industry 4.0 Systems Technician
- Cyber Security Technologist
- Advanced Manufacturing Technician
- Cyber-Physical Systems Technologist
- Service Technician
- Technical Officer
- Industrial Network Design Associate



COURSE STRUCTURE

No prior knowledge is required, as a background in engineering and IT is provided. The Diploma can be entered at both the start or mid-year and offers Semester 1 and 2 units. The course is structured to combine the basic IT and engineering knowledge necessary for an Industry 4.0 advanced manufacturing ethos.

There will be 8 core units as part of the Diploma, including:

- Design and Innovation: Communicating Technology
- Internet of Things
- Manufacturing
- Software Now
- Foundations of Data Science
- Project Management
- Industry 4.0 - Materials and Properties
- Industry 4.0 - CAD and CAM

FURTHER INFORMATION

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