

Aviation
AUSTRALIA



Aircraft Maintenance Engineering



Aviation is an exciting, high growth industry with worldwide opportunities.

Aviation Australia was established by the Queensland Government and has been training aircraft maintenance engineers since 2001.

We are an approved maintenance training organisation and have a variety of operational aircraft on campus. We are proud to offer excellent training with the majority of our instructors having worldwide industry experience.

With no two days being the same, an aircraft maintenance engineer is responsible for scheduled and unscheduled maintenance tasks and ensuring the tasks are completed at the highest standard, and in compliance with airworthiness regulations.

We ensure our graduates understand the importance of safety and reliability associated with aircraft maintenance, making them ready for employment with strong skills and a thorough understanding of aviation standards and requirements.

I hope this booklet helps you decide if pursuing a career in aircraft maintenance engineering is the right career path for you.

BILL HORROCKS
CEO - Aviation Australia



About Aviation Australia

Aviation Australia is a world class registered training organisation and is the only approved European Aviation Safety Agency (EASA) training organisation in Australia.

CORE CAPABILITIES INCLUDE:



**Aircraft Maintenance
Engineering Training**



**Cabin Crew /
Flight Safety Training**



Pilot Training



Remote Pilot Training



Aviation Consultancy

Approvals:

- ✓ Registered Training Organisation (RTO) 30770
- ✓ Registered CRICOS Provider 02425C
- ✓ EASA Part 147 Maintenance Training Organisation
- ✓ United Arab Emirates GCAA CAR 147 Maintenance Training Organisation
- ✓ CASR Part 147 Maintenance Training Organisation
- ✓ CASA CAR 30 Approved Maintenance Organisation
- ✓ CASR Part 141 Flight Training Organisation
- ✓ CASR Part 142 Flight Training Organisation



Study to become an Aircraft Maintenance Engineer

An Aircraft Maintenance Engineer's fundamental purpose is to ensure aircraft are safe and airworthy to fly. No aircraft takes off without being certified to do so by an engineer.

It's a role people don't often think about. However, it's one of the most crucial roles when it comes to the safety and viability of the aviation industry.

If you enjoy finding practical solutions to complex problems and knowing how things work, then this might be the career path for you.

Learning about the technology behind the aircraft systems and fixing them makes for a fascinating and rewarding career.

Why become an Aircraft Maintenance Engineer?

- ✔ Well paid job outcomes for a global qualification, especially if you become licenced
- ✔ Jobs are in demand worldwide
- ✔ Work anywhere in the world
- ✔ Career growth opportunities
- ✔ Work with the latest technology
- ✔ Use hands-on skills
- ✔ Work in a team environment



610,000

Projected worldwide demand for aircraft maintenance engineers by 2041.*



Types of Aircraft Maintenance Engineers

At Aviation Australia we provide training specialisations in Mechanical and Avionics streams.

Mechanical

Mechanical engineers work on aircraft engines and aircraft systems such as:

- ✔ Aircraft Structures
- ✔ Pressurisation Systems
- ✔ Electrical Power Systems
- ✔ Flight Controls Systems
- ✔ Fuel Systems
- ✔ Hydraulic Systems
- ✔ Landing Gear
- ✔ Gas Turbine and Propellers
- ✔ Engine Starting Systems

Avionics

Avionics engineers work with complex computer technology which involves high-tech equipment such as:

- ✔ Autopilot Systems
- ✔ Communication Systems
- ✔ Electrical Power Systems
- ✔ Flight Controls - fly by wire
- ✔ Navigation Systems
- ✔ In Flight Entertainment Systems
- ✔ Aircraft Lighting Systems
- ✔ Electronic Engine Control Systems
- ✔ Engine Indication Systems

Checklist of personal attributes:

- ✔ Medically fit, with good hearing and vision
- ✔ Able to concentrate for long periods
- ✔ Work well individually and as part of a team
- ✔ Attention to detail
- ✔ Safety compliance and have situational awareness

Things to take into consideration:

- ✔ Many positions include shift work that may include weekends and nightwork
- ✔ Maintenance checks can take place in all weather conditions although most major work is generally indoors in hangars and workshops
- ✔ You may be required to work in confined spaces and at heights on platforms around aircraft

“

I gained a deep knowledge of aircraft maintenance and learned difficult hands-on skills. My qualifications are recognised internationally.”

ELAINE LO

Now working for HAECO in Hong Kong



Course Details

For entry requirements, costs & payment plan information:



We offer the below Aircraft Maintenance Engineering course options:

Diploma of Aircraft Maintenance Engineering - Mechanical
(TB1) 11064NAT
CRICOS code: 110041J

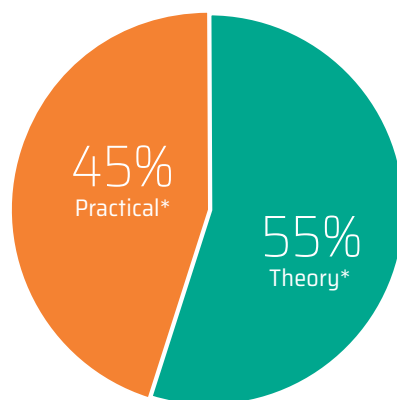
Diploma of Aircraft Maintenance Engineering - Avionics
(TB2) 11065NAT
CRICOS code: 110042H

The course runs over 90 weeks and on successful completion, students receive:

- ✔ Diploma of Aircraft Maintenance Engineering
- ✔ An EASA Certificate of Recognition

An EASA Certificate of Recognition is highly regarded by airlines and Maintenance Repair Organisations (MROs) all over the world.

A 90% attendance rate and 75% pass rate in each subject is required to graduate plus successful completion of 10 practical assessments.



Optional add-ons:

- ✔ GCAA (UAE General Civil Aviation Authority) Certificate of Recognition (upon successful completion of GCAA Module 10)

* 1164 hours of practical training and 1242 hours of theory training

Modules		TB1.1 MECHANICAL (FIXED WING)	TB2 AVIONICS
1	Mathematics		
2	Physics		
3	Electrical Fundamentals		
4	Electronic Fundamentals		
5	Digital Techniques/Electronic Instrument Systems		
6	Materials & Hardware		
7	Maintenance Practices		
8	Basic Aerodynamics		
9	Human Factors		
10	Aviation Legislation		
11	Turbine Aeroplane Aerodynamics, Structures & Systems		
13	Aircraft Aerodynamics, Structures & Systems		
14	Propulsion		
15	Gas Turbine Engine		
17	Propeller		

Optional add-ons:

- ✔ TB2 Avionics Theory Upgrade (self-study)
- ✔ TB2 Avionics Extension Course (available on successful completion of TB1.1 course)

How to get an EASA Part-66 Licence

DID YOU KNOW?

By studying with an approved EASA part 147 MTO, your on-the-job training requirement for licencing purposes is reduced to a minimum of 2 years.

1

Study

Enrol into the EASA Diploma of Aircraft Maintenance Engineering

- ✔ You can choose to specialise in Mechanical (B1) or Avionics (B2)
- ✔ The course will take approximately 90 weeks to complete
- ✔ On successful completion you will receive an EASA Certificate of Recognition and a Diploma of Aircraft Maintenance Engineering

2

On the Job Training

- ✔ Find an on the job (OJT) placement or employment with an EASA Part 145 Maintenance and Repair Organisation (MRO)
- ✔ Complete a minimum of two years on the job training
- ✔ Complete the OJT Journal of Experience

3

Licence

- ✔ Apply to an EASA State Member Competent Authority for your EASA Part-66 Licence issuance.



University Pathways

Successful Diploma graduates have the option of progressing towards a Bachelor Degree.



How To Enrol

- 01 Contact Aviation Australia
- 02 Complete the Aviation Australia International Enrolment Form
- 03 Provide certified copies of all documentation
- 04 If accepted, receive a Letter of Offer
- 05 Accept offer and arrange deposit payment
- 06 Receive Confirmation of Enrolment
- 07 Commence the course with Aviation Australia (subject to visa approval)



AGENTS

Aviation Australia works with a select group of agents who can assist with general enquiries, lodgement of applications, offers and confirmation of enrolments, student logistics and arrival arrangements.

For more information:



Before you start – Additional assessment requirements:

Some countries may require additional assessment requirements, such as a higher IELTS or equivalent level and/or student interview. You will be advised upon application if further details are required. Aviation Australia does not recommend sitting an IELTS before having received an offer.

English Language Proficiency:

IELTS Academic with 5.5 overall and with no sub band score less than 5.0. Aviation Australia accepts these approved English language equivalent tests. Testing must have been completed within 2 years from the enrolment application date. Aviation Australia does not accept IELTS General Training test results.

Academic Suitability:

Evidence of completion of Year 12 or equivalent, with a pass in Mathematics (at minimum Year 10 or equivalent). Where an applicant does not meet these requirements, Aviation Australia may consider sufficient relevant work experience (documented via a resume and referees) and/or a successfully completed higher level qualification that demonstrates academic suitability. Aviation Australia uses these equivalent international education achievement levels.

Minimum of 17 years of age:

Applicants under the age of 18 may be accepted where it is demonstrated they will be under approved guardianship arrangements. This arrangement requires the approval of the Department of Home Affairs. For more information visit Department of Home Affairs – Welfare Requirements for Student Visa Applicants under 18.

Current Valid Passport:

The applicant's passport must be current and valid for at least 6 months from the course commencement date.



Campuses & Training Aids

BRISBANE

Aviation Australia's main campus is situated near the Brisbane International Airport, you can see planes take off and land all day every day.

Brisbane Technical Training Centre

Aviation Australia's Technical Training Centre features a fully operational hangar with a wide range of static aircraft and an industry standard operating environment.

Here's a list of some of the aircraft you may work on during your training:

- Fokker F28
- MD-82's
- Beechcraft Kingair
- Piper Navajo
- Robinson R44
- Sikorsky S-76

The Technical Training Centre also features:

- Sheet Metal Workshop
- Avionics Workshop
- Composite Workshop

“

The great training facilities at Aviation Australia plus the professional instructors have been the key to empowering my learning.”

PO-YING CHEN,

Now working for Evergreen Aviation Technologies (subsidiary of EVA Air) in Taiwan.

INTERESTED IN SEEING THE CAMPUS BEFORE YOU ENROL?

Book in a campus tour. Email customerexperience@aviationaustralia.aero



Student Support

Our Student Services team is there for you from the moment you enrol to graduation and beyond.

They can help you settle into life at Aviation Australia by helping you:

- ✔ Find suitable accommodation or resolve a rental issue
- ✔ Get around town and use public transport
- ✔ With Overseas Student Health Cover (OSHC)
- ✔ Find a doctor when you're feeling unwell
- ✔ Balance your training schedule with your lifestyle and commitments

- ✔ Resolve issues or concerns with other staff or students
- ✔ Manage non-academic processes and pastoral needs

The Student Services team also:

- ✔ Hosts welcome and orientation programs
- ✔ Supports students who are under 18 years old
- ✔ Promotes recreational and well-being activities

“

I chose to study at Aviation Australia because of the world-class facilities they provide for their students.”

SYAFIQ NAsAHARUDIN
Malaysia

“

The staff are very supportive, and the instructors are so knowledgeable. It's a great environment to study in.”

RAMANPREET KAUR BHULLAR
India

Living in Australia

Australia is a modern, multicultural society with people from many ethnic backgrounds. “Mateship” is at the core of the Australian life, providing a welcoming, supportive and friendly environment for visiting students.

It’s famous for its pristine beaches, the Great Barrier Reef, unique wildlife and diverse natural attractions. There is always an opportunity to take time out and enjoy these wonders on your doorstep.

Australia has a high quality of living, low population for its size and enjoys hot summers and mild winters.

Australia is one of the most popular choices for international students because of our reputation for high quality education, and agreeable climate. It means students can get the best education whilst enjoying themselves and experiencing a different culture and lifestyle. Come and embrace the Australian spirit.



Everyone here has been so accepting and friendly, not to mention helpful. Australia is an awesome place to study and live in.”

MAHIRAH AZMAN
Malaysia

BRISBANE

Brisbane has a population of around two million and is the capital city of the state of Queensland, which has a reasonable cost of living and mild weather all year.

It’s a relatively safe international city known for its friendly people and is very diverse in terms of arts, culture, food, entertainment, sports and festivals. It’s a fantastic place to study, work and live.

CAIRNS

Cairns is a modern and vibrant city in North Queensland close to the Great Barrier Reef and is renowned for its relaxed lifestyle and tropical climate.

Cairns is a 2.5 hour flight north of Brisbane and has a population of around 150,000 people.



I loved studying in Brisbane where there is no winter and the city is a great place to hang out, outside of school.”

AHMED NAFIZ
Maldives





Aviation AUSTRALIA

 /AviationAustralia

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**Still have questions?
Check out our frequently
asked questions**



CRICOS NO. 02425C
RTO NO. 30770