

BECOME AN EASA QUALIFIED
**AIRCRAFT
MAINTENANCE
ENGINEER**



**ATLANTIC
AVIATION
GROUP**

ATLANTIC AVIATION INSTITUTE



Atlantic Aviation Institute is the EASA approved
Part 147 Training Organisation of Atlantic Aviation Group

BECOME AN EASA QUALIFIED AIRCRAFT MAINTENANCE ENGINEER WITH ATLANTIC AVIATION INSTITUTE.

Based in a state of the art training facility, the Atlantic Aviation Institute is an approved EASA Part 147 Training Organisation located near Shannon Airport in the West of Ireland.

The Atlantic Aviation Institute is part of Atlantic Aviation Group, an independent aviation company with over 50 years of aviation experience.

WHAT DOES AN AIRCRAFT MAINTENANCE ENGINEER (AME) DO?

Aircraft Maintenance Engineers maintain, inspect, modify and repair an aircraft's airframe, engine and avionics. They also perform sheet metal repairs and corrosion removal on an aircraft's airframe.

Recognition:

This programme will be completed at the Atlantic Aviation Institute, a **European Aviation Safety Agency (EASA) Maintenance Training School - Approval No. EI 147.0012.**

The aviation industry is regulated in Europe by the European Aviation Safety Agency (EASA), in the United States of America by the Federal Aviation Administration (FAA) and in Ireland, by the **Irish Aviation Authority (IAA)**. EASA is the European governing body for aviation safety.

Programme Title:

Aircraft Maintenance Engineer / EASA Part 66 CAT A1

Programme Duration:

The programme is two years in duration with multiple intakes per year. It is open to EU and Non-EU applicants. Visit our website, www.atlanticaviationinstitute.ie for more information on our next intake.

Study mode and Location:

Full-Time, Atlantic Aviation Institute, Shannon, Ireland

WHAT YOU NEED TO BECOME AN EASA QUALIFIED AIRCRAFT MAINTENANCE ENGINEER

Theoretical Training: EASA Part 66 CAT A1 Technical Training, Certificate of Recognition

Plus

Practical Training: 1 years' work experience in a Maintenance, Repair and Overhaul (MRO) or airline maintenance facility.





ABOUT THE PROGRAMME:

The programme is designed to bring students through the fundamentals of Aircraft System Design, Human Factors, Maintenance Practices and Aviation Legislation required to become a competent Aircraft Maintenance Engineer.

On successful completion of the programme, participants will be capable of carrying out maintenance work on large passenger aircraft. The two-year Aircraft Maintenance Engineer programme is fully approved by EASA.

PROGRAMME CONTENT (ASSESSMENT):

The syllabus and examination standard is outlined in the EASA Part 66 regulation. The duration of the training is two years: 50% Theoretical and 50% Practical Training. The Theoretical training programme is divided into 12 modules with a multiple-choice examination at the end of each module.



Year 1: Theoretical Training (21 weeks):

1. Mathematics – covers Arithmetic, Algebra and Geometry.
2. Physics - includes matter, mechanics thermodynamics, light and sound.
3. Electrical Fundamentals - covers all aspects of basic electrical theory.
4. Digital Techniques Electronic Instrument Systems - theory of aircraft instruments.
5. Materials and Hardware - learn all about materials and hardware used in aircraft.
6. Maintenance Practices - understand the practices used to safely maintain aircraft to the manufacturer's data.
7. Basic Aerodynamics - understand how aircraft fly, composition of the atmosphere, aerodynamics, theory of flight and stability.
8. Human Factors - understanding the Physical and Cognitive ergonomics, and the human interface within aviation maintenance.
9. Aviation Legislation - an important module that introduces the learner to the complex world of the laws governing aviation.
10. Aeroplane Aerodynamics Structures and Systems - in-depth study of the structures and systems found on turbine aircraft.
11. Gas Turbine Engine - covers all aspects of turbine engine operation.
12. Propeller - covers seven chapters including construction and maintenance.

Year 1: Workshop Training (12 weeks)

The training is delivered in dedicated training workshops where you will gain the hand skills and know-how to use the tools and instrumentation required to safely maintain modern jet aircraft. Upon successful completion of the Workshop Training (12 weeks), students will progress to **Practical Training (6 and 1/2 weeks)**.

Year 2: Maintenance Experience in an EASA Part 145 Organisation

Practical training is conducted in the busy environment of live aircraft maintenance at Atlantic Aviation Group. You will be actively involved in actual maintenance activities on Boeing 737, Boeing 757 and Boeing 767 aircraft carrying out or assisting in such tasks as: engine replacements, cabin refurbishment and structural repair, flight control and landing component replacements and system testing.

You, the trainee, will be working together with experienced engineers who will support you during this phase and bring you to the competency levels expected by industry leaders such as Atlantic Aviation Group. You will also gain substantial insight of the management of aircraft.

To successfully complete the programme, students must pass all examinations at the required pass mark of 75%. All relevant practical assessments must be successfully completed and meet the minimum attendance requirement of 3,072 hours over the duration of the course, including all hours for each module.

Successful completion of the Atlantic Aviation Institute EASA Part 147 approved training programme entitles the student to an EASA Part 66 A1 Aircraft Maintenance Engineer Licence.





CAREER PROGRESSION:

This programme is aimed at anyone who wishes to gain the skills and experience that will allow them to perform maintenance work on large commercial aircraft such as Airbus and Boeing. This programme will enable you to become an EASA qualified Aircraft Maintenance Engineer. This is a career with long-term growth possibilities that will allow you to travel all over the world, as EASA approved qualifications are recognised globally.

EASA qualified Aircraft Maintenance Engineers are highly sought after due to the high standards of maintenance work and safety they must maintain.

There are many career progressions available to EASA AME's. Many of our former trainees have become world leaders in the aviation community, some examples below:

- Vice President & Head of Technical EMEA with **AerCap**
- Vice President, Technical with **Aergo Capital**
- Operations Manager with **KLM Asia**

WHY TRAIN AT ATLANTIC AVIATION INSTITUTE?

The company has developed a rich and vibrant history of training world class Aircraft Maintenance Engineers over the past 30 years. The 2013 and 2015 WorldSkills Aircraft Maintenance Champions were trained at Atlantic Aviation. The company has also produced the last 5 Irish National Skills champions.

Our trainers are some of the most experienced and knowledgeable in the industry. They strive to ensure that you gain the best learning experience and successfully pass the programme.

Atlantic Aviation Institute will support you, where possible, in gaining work experience and employment as an Aircraft Maintenance Engineer.

You will gain experience as part of your practical training in a live aircraft maintenance environment.



WHY TRAIN IN SHANNON, IRELAND?

Shannon has pioneered and led the global aviation industry for many years. Living and training amongst the world's best ensures that you get the highest standard of training and education.

Ireland is a global hub for aviation with 9 of the top 10 lessors headquartered here. Half of the world's leased fleet of aircraft is managed from Ireland.

Located on the West of Europe, Ireland is the only Eurozone country with English as the native language. Aviation English is the de facto international language of civil aviation.

The cost of living in the Mid-West of Ireland is much lower than many other European locations.

Traditional culture plays a part in everyday life when training to be an Aircraft Maintenance Engineer in a country known as "The Land of a Thousand Welcomes".

Ireland is one of the most beautiful countries in the world. The Atlantic Aviation Institute is located in the middle of the world famous Wild Atlantic Way, close to many beautiful beaches and 1,000-year-old castles, so you will enjoy the very best of what Ireland has to offer.



EASA Part 66 CAT A1 Programme Fees:

Contact us or your regional AAI representative for more information.

Additional Course Costs:

Accommodation and living expenses

WHERE CAN I APPLY?

To apply, please contact the Atlantic Aviation Institute at

email: international@atlanticaviation.ie

or phone **tel: +353 61 717 726**

You can also find out more at

www.atlanticaviationinstitute.ie





www.atlanticaviationinstitute.ie

Bay 145, Shannon Free Zone, Shannon, Co. Clare,
Ireland, V14 XE40

tel: **+353 (0) 61 717726**

email: **international@atlanticaviation.ie**

