

# AMT

## Aircraft Maintenance Technician

TURBINE ENGINES (B1.1)

PISTON ENGINES (B1.2)

AB INITIO

CASCAIS, LISBON

Stand out in the aviation industry as an aircraft mechanic. With the necessary training and appropriate certifications, you can become one of the most sought-after professionals in this market.

Ensuring the safety and quality of aircraft operation is crucial work, which is why the contribution of an AMT professional is so essential in the industry.

IFA, certified by ANAC, has different types of AMT courses that allow you to obtain a professional license in category B1.

## WHAT DOES AN AMT DO?

### CATEGORY B1

- Carrying out and supervising maintenance work to ensure safety and airworthiness of aircraft<sup>1</sup>, with the necessary quality standards.
- Issuance of certificates validating the airworthiness of the aircraft<sup>1</sup>, after maintenance of the structure and mechanical and electrical systems.
- Execution of complex tasks.

<sup>(1)</sup> according to subcategories of professional certification

## WHAT ARE THE NECESSARY STEPS TO BECOME AN AMT?



(2) These phases vary in time and formats depending on the professional context of the aspiring AMT.

With IFA, you will receive all the support you need to identify where you are in these stages and the recommendation on the best and fastest way to complete this process.

## IFA VALUES THE QUALITY OF ITS TRAINING!

The content of the IFA courses in AMT includes theoretical and practical classes, for the subcategories of Turbine Engine and Piston Engine, which covers:

- diagnosis and rectification
- component replacement
- aircraft equipment
- inspection and monitoring of the general condition of the aircraft

**With us, you will be completely familiar with the working environment and legal requirements related to the world of aircraft!**

SUBCATEGORIES	DESCRIPTION
B1.1	Turbine engines
B1.2	Piston engines
B1.1 + B1.2 (M16)	Both types of engines

### CURIOSITY

Practically 100% of commercial aviation in the world uses turbine or piston engines.

## COURSE TYPES AVAILABLE AT IFA

### AB INITIO

Complete basic training with practical and theoretical classes.

### SELF-PROPOSED

Review, update knowledge and quick preparation for the mandatory exams.

### EXAMINATION

Application for the total exams or modules required to obtain a license from ANAC.

## AB INITIO REGISTRATION REQUIREMENTS

- Age: minimum 17 years old
- Education: 12th grade or official equivalent
- Proficiency in English: reading, writing and speaking
- Clean criminal record for access to reserved areas
- Basic knowledge of mathematics and physics



## TURBINE ENGINES (B1.1)

### What are turbine engines?

Gas Turbine Engines, also called jet engines or combustion turbines, are rotary engines that extract energy like an internal combustion engine, with the intake being carried out upstream of the compressor, where the fluid is subsequently compressed, then passing to a combustion chamber, before being expelled downstream of the turbine.

Turbine aircraft can be propeller or jet propelled.

## COURSE STRUCTURE



### THEORETICAL TRAINING

- 1.225h (approx. 12 months)
- 13 modules
- 13 theory exams



### PRACTICAL TRAINING

- 1.175h (approx. 12 months)
- 120 hours of classes at SATA Air, Azores



### TIMELINE

- **Duration:** approx. 24 months
- **Time:** Monday to Friday from 9:00 am to 5:30 pm
- **Examination:** starts at 6:00 pm



### LOCATION

- Cascais (theoretical and practical) and Azores (practical classes in a real environment)

## COURSE SUBJECT

<b>MODULE 01</b>	Mathematics
<b>MODULE 02</b>	Physics
<b>MODULE 03</b>	Principles of Electrotechnics
<b>MODULE 04</b>	Electronics Fundamentals
<b>MODULE 05</b>	Digital Techniques / Electronic Instrumentation Systems
<b>MODULE 06</b>	Materials and hardware
<b>MODULE 07A</b>	Maintenance Practices
<b>MODULE 08</b>	Basics of Aerodynamics
<b>MODULE 09A</b>	Human Factors
<b>MODULE 10</b>	Aeronautical Regulation
<b>MODULE 11A</b>	Aerodynamics, Structures and Systems of Turbine Engine Aircraft
<b>MODULE 15</b>	Gas Turbine Engines
<b>MODULE 17A</b>	Propellers

## PISTON ENGINES (B1.2)

### What are piston engines?

Piston engines or reciprocating engines use technology fundamentally similar to that used by cars and motorcycles, with an internal combustion engine, where pistons in the cylinders are used to transform motive force into propulsion, creating pressure in rotary movements. Piston engine aircraft always drive a propeller.

## COURSE STRUCTURE



### THEORETICAL TRAINING

- 1.100h (approx. 12 months)
- 13 modules
- 13 theory exams



### PRACTICAL TRAINING

- 920h (approx. 10 months)



### TIMELINE

- **Duration:** approx. 22 months
- **Hours:** Monday to Friday from 9:00 am to 5:30 pm
- **Examination:** starts at 6:00 pm



### LOCATION

- Cascais (theoretical and practical classes)

## DISCIPLINA DO CURSO

<b>MODULE 01</b>	Mathematics
<b>MODULE 02</b>	Physics
<b>MODULE 03</b>	Principles of Electrotechnics
<b>MODULE 04</b>	Electronics Fundamentals
<b>MODULE 05</b>	Digital Techniques / Electronic Instrumentation Systems
<b>MODULE 06</b>	Materials and hardware
<b>MODULE 07A</b>	Maintenance Practices
<b>MODULE 08</b>	Basics of Aerodynamics
<b>MODULE 09A</b>	Human Factors
<b>MODULE 10</b>	Aeronautical Regulation
<b>MODULE 11B</b>	Aerodynamics, Structures and Systems of Piston Engine Aircraft
<b>MODULE 16</b>	Piston Engines
<b>MODULE 17A</b>	Propellers

### PROGRAM B1.1 + B1.2 (M16)

IFA also offers the opportunity to obtain integrated training in both types of engines.

### COURSE STRUCTURE



#### THEORETICAL TRAINING

- 1.325h (approx.12 months)
- 14 modules
- 14 theory exams



#### PRACTICAL TRAINING

- 1.175h (it's course B1.1)



#### TIMELINE

- **Duration:** approx. 24 months
- **Hours:** Monday to Friday from 9:00 am to 5:30 pm
- **Examination:** starts at 6:00pm



#### LOCATION

- Cascais (all theoretical classes + B1.2 practice)
- Azores (practical classes in a real environment)

### TIMELINE



THEORY



TRAINING

MONTHS

B1.1 OR B1.1 + B1.2 (M16)

B1.2

0

12°

22°

24°

After training and successful exams, you are prepared for the mandatory internship phase in companies in the market<sup>3</sup>

#### ENGINE SUBCATEGORY

**B1.1**

**B1.2**

**B1.1+B1.2(M16)**

2 years

1 year

AML<sup>4</sup> B1.1 + 6 months

If there is an approved basic training course (Part 147)

<sup>3</sup>Training at IFA does not include mandatory internship hours. However, paid internships are available via a recruitment and selection process based on performance throughout the course, after the end of basic training, both at IFA Industries itself and at SATA air.

<sup>4</sup>AML: Aircraft Mechanic License.

At IFA, we recognize and value the investment effort that training at our academy represents for the families of our students. Therefore, we offer the best quality of training, with the newest resources and infrastructure, in addition to having a highly qualified professional team, so that the student acquires the necessary skills to perform their role as AMT.

Subcategory	Enrollment fee	Remaining Payable Amount	Total Value	or 20 installments	Considerations
B1.1	1.000€	13.500€	<b>14.500 €</b>	675 €	<u>2 installments:</u> with payments on the 1 <sup>st</sup> day of classes and before the start of practical training
B1.2	1.000€	13.000€	<b>14.000 €</b>	650€	
B1.1 + B1.2 (M16)	1.000€	16.500€	<b>17.500 €</b>	825€	<u>20 installments:</u> the first payment at the start of classes

## WHAT IS INCLUDED

- Insurance
- First attempt at exams
- Practical assessment
- Uniform
- Tablet
- Individual protection equipment
- Digital module manuals
- Airport Access Card

## WHAT IS NOT INCLUDED

- Accommodation<sup>5</sup>
- Meals<sup>5</sup>
- Round-trip flights between Cascais and Ponta Delgada (Azores)
- Extra theoretical classes
- Extra practical training (if necessary)
- Obtaining a VISA<sup>6</sup>
- Repetition of theoretical exams
- Internship

<sup>(5)</sup>Applicable for both classes in Cascais and Ponta Delgada.

<sup>(6)</sup>If a visa is required to reside in Portugal to take exams or theory, after registration, the student will receive a declaration of registration that will serve to begin the visa process at the local embassy or consulate. The process is handled directly by the student and is not related to the school. In case of visa refusal, providing due proof of refusal, the amounts paid will be refunded, removing possible amounts already consumed, such as the delivery of manuals and access to classes with an instructor.

## FINANCING

### BANCO BPI - ALGUEIRÃO MEM MARTINS

Catarina Estrela  
Estrada de Mem Martins, 277  
(+351) 219227268  
catarina.eugenia.estrela@bancobpi.pt

### BANCO SANTANDER - SÃO DOMINGOS DE RANA

Nuno Luz  
Largo São Domingos, 126  
(+351) 938 881 379  
nuno.luz@santander.pt

## ABOUT IFA

### HELPING YOU REACH HIGHER

The mission of the *IFA International Flight Academy* is to provide the best training for those who want to pursue a professional career in aviation.

### CUSTOMER SERVICE

We search for excellence and pay special care and attention to our students. Therefore, we are known for having a welcoming environment, with the entire team ready to serve you.

### COURSES

IFA presents several course options, which allow students to choose the one that best suits them depending on the investment involved, the modular or integrated learning model, and the face-to-face class or e-Learning format.

### QUALIFICATIONS

IFA's portfolio of courses in aircraft maintenance allows you to realize your dream of working in the aviation segment, whether in large airlines, air taxi companies, aircraft manufacturers, among others.

### IFA INDUSTRIES

It is the business unit, which belongs to the IFA group, responsible for managing the aircraft fleet, and certified by ANAC for training aircraft mechanics, in accordance with the requirements described in part 147 of Regulation (EU) No. 1321/2014, with certificate PT.147.003.

### COMMITMENT

With 25 years of history, IFA is an academy with the most complete training offer in the aviation industry (pilots, aircraft mechanics and cabin crew) with two headquarters in Portugal (Cascais and Viseu). IFA has highly qualified professionals, state-of-the-art technology and equipment to ensure excellence throughout the learning journey.

### SUCCESSFUL TEAM

We value the safety and quality of teaching, which is why the majority of our instructors are professionals with extensive experience in their respective areas.