



SPECIALIZING MASTER IN

# FUNDAMENTAS OF THE AIR TRANSPORT SYSTEM

IV EDITION — MARCH 2023



## GENERAL OVERVIEW

The air transport system is an inherently multidisciplinary field, where technical and organizational skills are needed to face both normal operation and developmental programs.

Today, commercial aviation is experiencing a significant growth at a global level. All major players in the system, including airlines, handling and airport management companies, as well as regulators and supervisory agencies, will need to cope with this trend, relying on highly skilled professionals with an excellent technical qualification in aeronautics and a deep knowledge of the processes typical to the air transport system, from the global picture to the innermost components.

The Master course is **supported by the Italian Civil Aviation Authority (ENAC).**

## TRAINING OBJECTIVES

The air transport system is an inherently multidisciplinary field, where technical and managing skills are needed to face both normal and emergency operations.

It has experienced a significant growth in recent years. Covid-19 pandemic strongly impacted the situation, anyway the air transport system has demonstrated resilience in many fields, and recovering is in sight. The future will not be a replication of the past. New ways shall be followed.

All major players in the system, including airlines, handling and airport management companies, as well as regulators and supervisory agencies, will need to cope with this trend, relying on highly skilled professionals with an excellent technical qualification in aeronautics and a deep knowledge of the processes typical to the air transport system, from the global picture to the inner most components.

The Master Course will allow the participants to develop a complete knowledge of the air transport system in its multiple aspects, by means of a structured theoretical approach well suited for engineers, followed by a practical internship period of a minimum of 4 months in a qualified organization, with the tuition of experienced industry staff.

At the end of the Course, the participants will have gained a good familiarity with the field of the air transport, which will constitute a primary asset for a successful job application in the field, easing their transition from the academic world to the job market.

## DIDACTIC PLAN

**From 30/01/23 to 24/03/23:** foundation courses, i.e. teaching activities on introductory topics, to fill curricular gaps. Not associated with any CFU.

**From 27/03/23:** didactic activities with associated CFU for all students, according to the following plan:

### Teaching activities (40CFU)

Module 0: General Abilities

Module 1: Civil Aviation System

Module 2: Cybersecurity

**25**  
**students**

**1500**  
**hours**

**12**  
**months**

**€8.000**  
**cost**

Module 3: Quality Assurance and Compliance Monitoring  
Module 4: Safety Management System  
Module 5: Accident Investigation  
Module 6: Human Factors and Psychological Aspects  
Module 7: Emergency Management  
Module 8: Airport Capacity  
Module 9: Airport Management System  
Module 10: Air Transport Company  
Module 11: Continued airworthiness, Maintenance and Engineering

**Four months internship (10 CFU)**  
**Individual activities (10 CFU)**

## TITLE RELEASED

The “Fundamentals of the Air Transport System” first-level Specialising Master’s Diploma will be awarded in English

## EMPLOYMENT OPPORTUNITIES

Fields of working opportunities:

- Airlines: Operations Planning, Airworthiness Activities
- Air Operators: Helicopter Operators, Bizjets Operators
- Airports: Airport Landside and Airside Management, Airport Facilities
- Management Regulatory Bodies: ENAC, EASA, Eurocontrol, others.

## FACULTY

**Scientific Director**

Giuseppe Sala

**Vice Director**

Carlo E. D. Riboldi

## REQUIREMENTS

A Bachelor (Laurea) or Master of Science (Laurea magistrale/specialistica) in engineering or science is required. For international applicants, the equivalent qualifications of the respective university systems will be considered.

The Admission Board will select the students to be admitted by means of CV evaluation and oral examination.

Admission exams will take place in chronological order, until end of available places.

## DEADLINES

To participate in the selections you must fill out the online application form by the following deadlines:

- Italian/foreign citizens with a qualification obtained in Italy or abroad by **February 28th, 2023**;
- Non-EU citizens with qualification obtained abroad by **January 28th, 2023**.

## PRICE

Total cost of the Specializing Master: **8,000 €**, divided into:

- **500 €** for the registration fee
- **7.500 €** for the participation fee





## CONTACTS

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<https://www.polidesign.net/en/formazione/product-design/master--fundamentals-air-transport-system/>