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POLITECNICO MILANO 1863

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DIPARTIMENTO DI SCIENZE E TECNOLOGIE AEROSPAZIALI

1ST LEVEL MASTER COURSE IN

FUNDAMENTALS OF THE AIR TRANSPORT SYSTEM

4TH EDITION 2023-2024

With sponsorship of

ENAC
Ente Nazionale per l'Aviazione Civile
ITALIAN CIVIL AVIATION AUTHORITY

1st Level Master Course
Fundamentals of the Air Transport System
4th Edition 2023-2024

Politecnico di Milano

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1st Level Specializing Master Course in

Fundamentals of the Air Transport System
4th Edition 2023-2024

Organized by:

DAER - Department of Aerospace Science and Technology - Politecnico di Milano

1. PURPOSE

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 recovering from the recent virus crisis effects, experiencing a significant growth at a global level in many sectors. 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. Moreover new air transport modes are emerging and their integration within the current situation is an impending necessity

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. The previous editions of the Course are a good example of this opportunity, with a nearly 100% placement result.

2. BEGINNING AND END OF THE COURSE

The Course will start by the end of March 2023 and will end in the spring of 2024.

3. PROGRAM

Teaching activities (8 months full time) - Teaching, exercise sessions and labs @ Politecnico di Milano

Module 1: Civil Aviation System
Module 2: Cybersecurity
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

Internship @ Host company in the field of air transport – airline, maintenance company, airport management company, etc. (4 months full time).

4. REQUIREMENTS

A Bachelor of Science (Laurea) in a technical field (e.g. engineering) is required. For candidates graduated abroad, equivalent qualifications in the respective educational Institutions will be considered. The Master Board will select the students to be accepted by means of CV evaluation and oral examination.

Enrolment requests should be received by the end of **March 2023**. A maximum of 25 students will be admitted.

5. FEE

Total costs: € 8.000 (€ 7.500 tuition fee plus € 500 enrolment fee) to be paid in two instalments.

6. SCHOLARSHIPS

Scholarships covering the whole tuition fee or a part of it may be made available by collaborating industrial subjects. They will be assigned by the Master Board after the expiration of the enrolment deadline.

7. LOCATION

Politecnico di Milano, Bovisa Campus, Milano. The internship period will be hosted by the industrial subjects acknowledged by the Master Board, typically (but not exclusively) in Italy.