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United Nations Institute
for Training and Research

MATSM

**MASTER IN SUSTAINABLE
AIR TRANSPORT MANAGEMENT**



II edition – 23 November 2020

60 ECTS (600 hours)
e-learning modality

ITAÉREA AERONAUTICAL BUSINESS SCHOOL

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ITAérea Aeronautical Business School

We are an aeronautical business school specialised in delivering high-quality training to both professionals of the Air Transport sector and those who wish to start working in this fascinating and dynamic industry. We deliver our training through our recognized Master in Sustainable Air Transport Management (MATSM) and other postgraduate programmes and shorter courses focused on Air Transport.

At ITAérea we strive to meet the demand of first-class professionals from different companies in the Air Transport Sector: Airlines, Airports, Ground Handling, Aviation Authorities, Aircraft Manufacturing companies, Consulting companies, Law firms, etc. The school is staffed by more than 250 professors who have a vast experience in the industry and a practical approach to transmit their valuable real-life experience to our students.

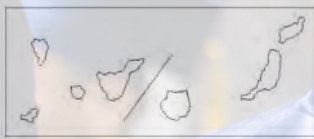
Since we are internationally focused, we deliver our training courses in Spanish, Portuguese and English. We are represented in Spain, the United Kingdom, Brazil, Colombia, Peru, Honduras, Mexico, Costa Rica, Panama, Chile, Argentina, Venezuela, Bolivia, Ecuador, Dominican Republic, Uruguay, China, Saint Thomas and Prince and Angola.

Madrid
Dirección: Luis Gallardo

Barcelona
Dirección: Daniel Cruz

Sevilla
Dirección: Rafael Márquez

Alicante
Dirección: William Dugarte



Málaga
Dirección: Carlos Berenguer

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Partnership with UNITAR



The United Nations Institute for Training and Research (UNITAR) provides innovative learning solutions to individuals, organizations and institutions to enhance global decision-making and support country-level action for shaping a better future.

UNITAR was created in 1963 to train and equip young diplomats from newly-independent UN Member States with the knowledge and skills needed to navigate through the diplomatic environment. Over the years, UNITAR has acquired unique expertise and experience in designing and delivering a variety of training activities. We have become a leading institute in the provision of customized and creative learning solutions to institutions and individuals from both public and private sectors.

With a strategy fully focused on achieving the Sustainable Development Goals (SDGs), UNITAR supports Governments to implement the 2030 Agenda.

Air transport is essential to our global society. It is a driver of economic, social and cultural development. Balancing the three pillars of sustainability – social, economic and environmental will allow the air transport industry to grow in an environmentally sustainable manner.

This joint training programme reflects a cooperation between UNITAR and ITAérea Aeronautical Business School in a critical topic like sustainable air transport with the aim of offering knowledge on how to leverage air transport for economic and social development, while reducing its environmental footprint and contributing to advance the Sustainable Development Goals (SDGs).

Participants successfully completing all the requirements will receive a diploma of Master in Sustainable Air Transport Management (MATSM) issued by both institutions. The graduation ceremony will take place at the Palais des Nations in Geneva, Switzerland, where the United Nations European Headquarters are located.

Training program

Unit I: Sustainable Management of the Airports

150+20 (BC) hours

- The Airport Business.
- Airport Master Planning.
- Airport infrastructures: capacity problems.
- Operations management at the airports.
- Airport Slots.
- Safety and security management at the airports.
- Maintenance management at the airports.
- Construction Management at the airports.
- Environmental management at the airports.
- Commercial management at the airports.
- Airport efficiency: small airports management.
- Global economic perspective of airports.
- IT Management at the airports.
- The airport of the future.

Unit II: Sustainable Management of the Airlines

60+20 (BC) hours

- Introduction to the Airline business.
- Airlines Structure.
- Airline economic review.
- Route development.
- Airline Fleet.
- Airline Operations Concepts.
- Aircraft operation.
- Sustainable Aviation.
- Safety and Security management at airlines.
- The challenge of a hangar.
- Ground handling.
- Air Cargo.
- Business and Corporate Aviation.

Unit III: International Air Law

70+20 (BC) hours

- Introduction, concept and sources of Air Law.
- Liability in Air Transport.
- Financing and sale and purchase of aircrafts.
- Air Operator Licences.
- Merger and acquisition of airlines.
- Aeronautical Labour Law.
- Legal status of aircraft.
- Aviation insurance.
- Town planning, environment and airport.

Unit IV: Sustainable Management of the Air Navigation 60+20 (BC) hours

- Basic concepts in Air Navigation Systems.
- Instruments and aircraft fundamentals.
- Nav aids and equipment.
- ATS (Air Traffic Services).
- Meteorology applied to Aviation.
- Aeronautical Communications.
- Air Traffic Control (ATC) Service.
- Aeronautical Information Service (AIS).
- Airspace sustainability and new air navigation concepts.
- Human Resources Management in Air Navigation.

Unit V: Sustainable Management of the Aeronautical Industry 60+20 (BC) hours

- Introduction to Aeronautic Industry
- Design and Development of an Aeronautic Programme.
- Supply Chain in the Aeronautic Production.
- Industrialization and Manufacturing support.
- Digitalization and new technologies deployment in the industry.
- Sustainable manufacturing / Lean manufacturing.

Unit VI: Master Thesis

100 hours

Individually, students must draft a Master Thesis consisting in the study of a subject related to air transport.

Co-directors



Mr Carlos Berenguer.
Head of Airports at AERTEC Solutions



Mr Adriá Canals
Head of Transportation at ARUP.

Teaching staff

The number of teachers assigned to this postgraduate programme totals 32, all of them are top-level professionals with vast experience in the air transport industry. They are originally from more than 10 different nationalities (Europe, the USA, Latin America, Middle East, etc.). These professionals hold top management posts in companies and institutions such as:

Arup • Mott MacDonald • SAS Ireland • Leadin Aviation Consulting • AENA • Vinci Airports • AERTEC Solutions • AIRBUS • Augusta Abogados • IAG Cargo • SAERCO • ENAIRE • GATCO • ITP Aero • Albacete Airport • Hong Kong Express Airways • easyJet • KPMG • AERIS Costa Rica • Grupo Puntacana • Ryanair • Gestair • IBERIA Airlines • Clyde & Co. • CLAC • AA2000 • WALA • DANTE Aeronautical

Objective and suitability

The objective of the Master in Sustainable Air Transport Management is to train students to fill management positions in airports, airlines, as well as in companies associated to airports and aviation in general (commercial concessionaires, Air Navigation Service Providers, aeronautic industry manufacturers, construction companies, handling companies, security companies, maintenance companies, equipment supply companies, etcetera) in the fields of:

Engineering • Sustainability • Operations • Infrastructure • Maintenance • Organization
Human Resources • Business Management • Navigation Systems • Legal • Finance

Enrolment requirements:

- University graduates or non-graduates professionals of the aeronautical and airport sector.
- Required English level: B2. Equivalent to:
 - First Certificate in English (FCE).
 - TOEFL 61-79/173-210/500-547.
 - IELTS 5.0/5.5/6.0.
 - Trinity Grades 7, 8, 9.

Methodology

Online campus

Online exams

Tutoring hours

Training is provided using the e5 methodology, which is based in the 5 basic pillars of online training: e-learning, expertise, efficiency, employability and enhancement. The School has been using this methodology for many years.

The teaching centre is ITAérea's Virtual Campus, where students may find all programme contents:

- Multimedia presentations (audio and video). Short length and easy-to-watch videos will be used to ensure the best comprehension and dynamism for the student.
- Updated and international contents (references are not exclusive for Europe).
- Interactive review exercises, so the student may review the main concepts.
- Regular control and monitoring: The Academic Department, composed of 40 tutors, carries out a regular control and monitoring of the student and issues status reports.
- Evaluation exams. Through which the student will prove what he has learned.
- Business Cases. Practical exercises.
- Additional materials.
- Everything is available 24/7.

Assessment and degree obtained

In order to evaluate the students and continuously assess their learning progress, the following aspects will be considered:

- There is a continuous assessment. Final exams will be performed after Units 1 to 5.

Students will obtain the Master in Sustainable Air Transport Management degree, issued by ITAérea Aeronautical Business School in collaboration with UNITAR (UN).

The graduation ceremony will take place in the Palace of Nations, home of the United Nations Office at Geneva, Switzerland.

Price and payment methods

For further information please contact info@itaerea.es

ITAérea Aeronautical Business School

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