



MATSM

MASTER IN SUSTAINABLE AIR TRANSPORT MANAGEMENT

**600 hours (equivalent to 24 ECTS)
e-learning modality**

ITAÉREA AERONAUTICAL BUSINESS SCHOOL

Index

1. The school
2. Alliance with UNITAR
3. Training programme
4. Co-directors
5. Teaching staff
6. Objective and suitability
7. Methodology
8. Case studies
9. Assessment and degree obtained
10. Price and payment methods

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.



Alliance with UNITAR



An autonomous UN body established in 1963, the United Nations Institute for Training and Research (www.unitar.org) is a dedicated training arm of the United Nations System, and has the mandate to enhance the effectiveness of the UN through diplomatic training, and to increase the impact of national actions through public awareness-raising, education and training of public policy officials.

On November 14, 2017, the director of the decentralised cooperation programme of the United Nations Institute for Training and Research (UNITAR) and director of the CICAL Global Network, together with the General Director of ITAérea Aeronautical Business School, signed an agreement to provide training programmes related to sustainability in air transport, in accordance with the aims and objectives of the United Nations 2030 Agenda for Sustainable Development.

One of these programmes is the Master in Sustainable Air Transport Management, whose diploma is issued by both institutions. Furthermore, the ceremony of graduation will take place in the Palace of Nations, home of the United Nations Office at Geneva.

The international character of the agreement with UNITAR is embodied internationally with the teachers that participate in this programme.

Training program

Unit 0: Introduction to Sustainable Aviation

5 hours

- Aviation and sustainability.
- Market-based measures.
- Sustainable Aviation Fuel (SAF).
- Electric Aviation.
- Hydrogen and Aviation.

Unit I: Sustainable Management of the Airports

170 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.
- Asset management at the airports.
- Salvador Bahia Airport: the most sustainable airport in Brazil.
- Construction Management at the airports.
- Environmental management at the airports.
- Sustainability: the case of Aeropuerto Internacional El Dorado, Colombia.
- 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

80 hours

- Introduction to the Airline business.
- Airlines Structure.
- Airline economic review.
- Route development.
- Airline Fleet.
- Aircraft maintenance.
- 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.
- Environmental Management System in Air Europa.

Unit III: International Air Law

90 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

80 hours

- Basic concepts in Air Navigation Systems.
- Instruments and aircraft fundamentals.
- Nav aids and equipment.
- ATS (Air Traffic Services).
- Sustainable Management of Air Navigation.
- 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

80 hours

- Introduction to the Aeronautical Industry.
- Sustainability in the Aeronautical Sector.
- Design and Development of an Aeronautical Programme.
- Supply Chain in the Aeronautical Production.
- Industrialization and Manufacturing support.
- Digitalization and new technologies deployment in the industry.
- Sustainable manufacturing / Lean manufacturing.
- Sustainable Aviation: Innovations and Technologies.

Unit VI: Master Thesis

100 hours

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

Co-directors



Mr. Carlos Berenguer.
Aviation General Director at
AERTEC Solutions.



Mr. Adriá Canals
Head of Transportation
Advisory at ARUP.



Mr. Rodrigo Tavares
Environmental Manager at
Salvador Bahia Airport.

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 • Air Europa • AA2000 • WALA • DANTE Aeronautical •



Mr. Carlos Medrano
AENA's former General Director



Mr. Ignacio Monasterio
AECFA's Coordination Director



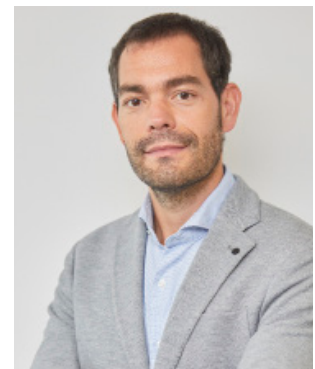
Mr. Carlos Berenguer
Aviation General Director at
AERTEC Solutions.



Mr. Adriá Canals
Head of Transportation
Advisory at ARUP.



Mr. Rodrigo Tavares
Waste and Resources
Manager at Neom



Mr. Armando Rodríguez
Spain & Portugal Handling
Services Manager at Iberia
Airlines.



Ms. Adriana Bejarano
Head of Assurance (EHS,
SMS, CSR) at Aeris Holding
Costa Rica



Ms. Lourdes Montás
Manager of Business Process
and Risk Solutions at Strategy
Partners



Ms. Tania Chacín
Sustainability Manager at OPAIN
S.A. Aeropuerto Internacional El
Dorado



Mr. Javier Sanz
Former Flight Operations
Director at Iberia Airlines.



Mr. Víctor del Castillo
SMS and Human Factors expert.



Mr. César Ovelar
CFO Group Gestair



Mr. Daniel Cruz
ANS Dept. at the Civil Aviation
Authority of Thailand on
behalf of EASA.



Mr. Rafael Márquez
Aerospace & Defence Systems
Director at AERTEC.



Mr. David Doral
Founder and Director of
DANTE AeroNautical.

...and much more teachers:

- Eduardo Coll. Managing Director at Leadin Aviation Consulting.
- Enric Cuadras. Principal Airport Planner. Mott MacDonald.
- Miguel Palomares. General Manager of Albacete Airport.
- Jesús Viciano. IT Systems Manager at AERTEC Solutions.
- Juan Manuel Ortega. Head of Airport Engineering & Asset Management Aviation at Mott MacDonald.
- Daniel Pagán. SVQ Hangar Quality Manager at Ryanair.
- Saúl Nieto. Captain Hong Kong Express Airways.
- Eliseo Llamazares. KPMG Partner. Chile.
- Óscar Castro, Aeroelastics and Sustainability Consultant.
- Encarna Martín, Business Development Consultant.
- Jordi Pla Pintre. Director of Network Strategy & Long Term Planning at Vueling Airlines.
- Andrea Vassallo. Senior Manager of Supply Chain & Materials at Volotea.
- Alfredo Arranz. Hangar Director at Ryanair.
- Lucía Martínez. Environmental Manager in Air Europa.
- Diego Olmedo. Partner at Clyde & Co.
- Manuel Gallego. Lawyer at Augusta Abogados.
- Hernán Gómez. Consultant. Advisor ICAO and CLAC.
- Felipe Pineda. Lawyer at Augusta Abogados.
- Mattia Cardinali. Lawyer at Augusta Abogados.

- Diego González. Legal Affairs Manager at Aeropuertos Argentina 2000. President of WALA.
- Ramón Amieva. Apron Supervisor West & South Tower (Madrid-Barajas Airport).
- Regina Alvarado. ATCO at Palma ACC. ENAIRE.
- Matthew Riley. Head of Operations at ATM Transformation Ltd.
- Luis Barbero. ATCO at London Heathrow. President and CEO of GATCO.
- Alberto García. Simulation Engineer at ITP Aero.
- Jorge Moñino. Aerospace Industry Director at AERTEC.

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: at least B2.

Methodology

Live sessions via Zoom

Job bank management

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 center is ITAérea's Virtual Campus, where the student will find all the contents:

- Live sessions with the teachers via Zoom.
- Updated and international contents.
- Periodic monitoring and control: The academic department carries out a periodic monitoring of the student and prepares situation reports.
- Evaluation exams. Through which the students will demonstrate what they have learned.
- Job bank management.

Case studies

- "Airport planning in airports with less than 10 M passengers in South America".
- "Asset management and maintenance at UK airports".
- "Salvador Bahia Airport, the most sustainable airport in Brazil".
- "Environmental management at Juan Santamaría International Airport, San José, Costa Rica".
- "Sustainability: the case of Aeropuerto Internacional El Dorado, Colombia".
- "The efficiency of small airports in the Nordic countries".
- "The airports of the future".
- "Route planning, fleet management, organizational structure and sustainable aviation in the main airlines".
- "Sustainability of airspace and new concepts of air navigation".
- "Lean manufacturing of aircraft".
- "Electric and hybrid aircraft".

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 master's 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@itaarea.es



For more information, please contact:

info@itaerea.com
0034 902 505 501
www.itaerea.com

*Trademark and training programme registered under the Intellectual Property Act.

Follow us!



@ITAerea_Aero



ITAérea Aeronautical Business School