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United Nations Institute for Training and Research



SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD

MATSM

MASTER IN SUSTAINABLE AIR TRANSPORT MANAGEMENT

**1500 hours (equivalent to 60 ECTS)
e-learning modality**

ITAÉREA AERONAUTICAL BUSINESS SCHOOL

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ITAérea Aeronautical Business School

We are an aeronautical business school specializing in providing high-quality training for both professionals already working in the air transport sector and individuals seeking to begin a career in this fascinating and dynamic industry. Our training is delivered through recognized postgraduate programs and specialized short courses focused on air transport.

At ITAérea, we are committed to meeting the growing demand for highly qualified professionals across the air transport sector, including airlines, airports, ground handling companies, aviation authorities, aircraft manufacturers, consulting firms, law firms, and more. Our faculty comprises over 300 professors with extensive industry experience, who bring a practical and hands-on approach to sharing their real-world knowledge with our students.

With a strong international orientation, we offer our training programs in Spanish, Portuguese, and English. ITAérea is represented in Spain, the United Kingdom, Brazil, Colombia, Peru, Honduras, Mexico, Costa Rica, Panama, Chile, Argentina, Venezuela, Bolivia, Ecuador, the Dominican Republic, Uruguay, China, São Tomé and Príncipe, and Angola.

Madrid
Dirección: Luis Gallardo

Sevilla
Dirección: Rafael Márquez



Málaga
Dirección: Carlos Berenguer

Barcelona
Dirección: Daniel Cruz

Alicante
Dirección: William Dugarte

Murcia
Dirección: Estrella Valera



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 CIFAL 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 master's degree 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

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

Unit I: Sustainable Management of the Airports

- The Airport Business.
- The air transport demand
- 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

- The Airline business.
- Airlines Structure.
- Airline economic review.
- Route development.
- Airline Fleet.
- Ancillary revenue management.
- 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.
- Sustainability in airlines. The Iberia Case.

Unit III: International Air Law

- 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

- 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

- 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

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. Honorary Vice
President of ITAérea



Mr. Adrià Canals

Head of Transportation Advisory
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 • AENA • Volotea • 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. Javier Gandara
Easyjet's General Director for southern Europe.



Mr. Jared Harckham
Vice President and Managing Director, Aviation at ICF.



Mr. Carlos Berenguer
Aviation General Director at AERTEC Solutions.



Mr. Adriá Canals
Head of Transportation Advisory at ARUP.



Mr. Juan M. Ortega
Head of Airport Engineering & Asset Management Aviation at Mott MacDonald



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



Ms. Adriana Bejarano
Head of EHS and CSR at Aeris Holding Costa Rica



Mr. César Ovelar
CFO Group Gestair



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

...and many more teachers:

- Eduardo Coll. Managing Director at Leadin Aviation Consulting.
- Enric Cuadras. Principal Airport Planner. Mott MacDonald.
- Miguel Palomares. General Manager of Melilla Airport.
- Jesús Viciano. IT Systems Manager at AERTEC Solutions.
- Daniel Pagán. SVQ Hangar Quality Manager at Ryanair.
- Saúl Nieto. Captain Hong Kong Express Airways.
- Alejandro Baró. Ancillary Revenue Manager at Volotea Airlines.
- Eliseo Llamazares. KPMG Partner. Chile.
- Óscar Castro. Aeroelastics and Sustainability Consultant.
- Andrea Vassallo. Senior Manager of Supply Chain & Materials at Volotea.
- Alfredo Arranz. Hangar Director at Ryanair.
- Diego Olmedo. Co-Founder and lawyer, PionAirLaw.
- Manuel Gallego. Lawyer at Augusta Abogados.
- Hernán Gómez. Consultant. Advisor ICAO and CLAC.
- 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.com



For more information, please contact:

info@itaerea.es
0034 968 966 885
www.itaerea.com

