



II Level University Master in "Aviation: Sustainable Development Goals"

High-level Summary of the Didactic Material MODULES I-XX











Module I AIR LAW

Specific training contents (48 hours)

- 1. Sources of air law and analogy
- 2. Freedoms of the Air and traffic rights: legal aspects
- 3. US Airline Deregulation and EU Air Transport Liberalisation Process: legal aspects
- 4. Civil aviation authorities and organisations
- 5. Air carriers
- 6. Licensing of air carriers: regulatory aspects
- 7. Leasing (contracts, lessor and lessee, liability, acceptance and clauses).
- 8. Liability for Aircraft Accident, safety position and just culture principles
- 9 Airport management: legal aspects











Module I AIR LAW Details

- International and EU Aviation legislation; hierarchy of the sources of law
- ICAO Annexes to the Chicago Convention; International Standards and Recommended Practices (SARPs)
- Soft law documents
- The 9 Freedoms of the Air; Air Traffic Rights
- US Airline Deregulation and EU Air Transport Liberalisation Process; the third package of air transport liberalization in Europe
- Role and competences of the civil aviation authorities and organisations (ICAO, Eurocontrol, EASA, ENAC, ENAV, ANSV, IATA)
- Air carriers: Regulation EC 1008/2008; Operation of air services: EU and international rules; Air transport agreements
- Licensing of air carriers: regulatory aspects
- Leasing: legal aspects; lease atructure; different types of aircraft lease agreement; components of a Standard Aircraft Lease Agreement
- Liability for aircraft accident: investigation; safety position; gross negligence; wilful misconduct; acceptable/unacceptable behavior
- Just Culture Principles in the EU Legislation and Relationship with Safety Investigations and Occurences Reporting
- Airport Management: security management; customer service; flight management; commercial operations; managing Human Resources; environmental aspects











Module II SUSTAINABLE DEVELOPMENT Specific training contents (24 hours)

- **1.** Notion and definitions of sustainability
- 2. The regulatory evolution of the principle of sustainable development and a pioneering role of transport
- 3. The pillars of sustainability: Economic Sustainability, Environmental Sustainability, Social Sustainability
- 4. Sustainability goals in the UN Agenda 2030











Module II SUSTAINABLE DEVELOPMENT Details:

- Origins and history
- Definition: the Brundtland Report
- Evolution of prevailing concepts and definitions of sustainable development at International Level: the road from Stockholm to Rio; the road from Rio +20 to Johannesburg; UN Agenda 2030
- Evolution of prevailing concepts and definitions of sustainable development at and EU level: the road from the Rome Treaty 1957 to the Single European Act; the road from the Maastricht Treaty to the Treaty establishing a Constitution for Europe (2004); the Lisbon Treaty 2007
- Different approaches to sustainability
- Sustainability dimensions
- 17 goals and 169 targets of Agenda 2030
- "Sustainable Devolpment Report 2023" by SDSN (Sustainable Development Solutions Network)











Module III AVIATION HISTORY Specific training contents (6 hours)

- 1. Aviation history
- 2. The first powered flight
- 3. The emergence of airlines companies
- 4. Types of flight
- 5. The emergence of low cost companies
- 6. Towards the end of the low cost era?











Module III: AVIATION HISTORY Details:

- History of Aircraft and Aviation
- From the Dream of Flight (Icarus) to the Renaissance Revolution and Early Aeronautical Design (Leonardo da Vinci)
- Heavier-Than-Air Aircraft: the Montgolfier Brothers
- Invention of the Airplane: the Wright Brothers in the History of Aviation
- Aviation during the World War I
- The first transatlantic flight: Charles Lindbergh
- Aviation during the World War II and the technological revolution











- How Aviation Evolved from Military Applications to Civilian
- History of the Airline Industry
- Development of Jet-Powered Aircraft
- Helicopters & V/STOL
- Supersonic Aircraft
- Regional aircraft and General Aviation
- Spaceplanes
- Drones
- Low-cost Aviation and its evolution
- Digital Age and Aviation of the Future: towards Sustainable Aviation











Module IV

AERONAUTICAL ENGINEERING (FUNDAMENTALS OF FLIGHT)

AND AIRCRAFT MAINTENANCE

Specific training contents (9 hours)

- **1.** Aircraft structure (configurations)
- 2. Aerodynamics
- 3. Engines and propulsion systems
- 4. Materials Science and on-board systems
- 5. Meteorology
- 6. EASA Part -145
- **7. CAMO**
- 8. Aircraft Inspections (A, B, C, D)
- 9. The maintenance reserves











Module IV: AERONAUTICAL ENGINEERING (FUNDAMENTALS OF FLIGHT) AND AIRCRAFT MAINTENANCE

Details:

- Aircraft structural components
- Load factor
- Elements and applications of aereodynamic forces
- Maneuvers
- Airworthiness of the aircraft
- Aircraft principal axes











- Aircraft propulsion systems technology and design
- Basic propeller principles
- Current trends in aircraft design and costruction
- Materials used in aircraft: sustainability aspects
- Aircraft software systems
- Aircraft hardware systems
- Flight control systems

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- Aviation Meteorology for Safe , Efficent and Cost-effective air navigation services
- Meteorology and Flyng plannig
- ICAO Annex 3 Meteorological Service for International Air Navigation
- EASA part 145 Quality System
- Certification of maintenance
- Personal requirements
- CAMO (Continuing Airworthiness Management Organisation)
- ICAO Annex 8 Airworthiness of Aircraft
- Regulation (CE) 2042/2003 on Continuing Airworthiness of Aircraft
- Regulation (EU) 1321/2014 on Continuing Airworthiness of Aircraft
- Aircraft maintenance checks
- The different types of aviation maintenance checks (ABCD's System)
- Basics of aircraft maintenance reserve development and managment











Module V: TRANSPORT ECONOMICS Specific training content (9 hours)

- 1. Fundamentals of Economics (perfect competition, oligopoly, monopoly)
- 2. Cost factors of an airline (CASK, RASK, pax/km cost, load factor, break even, etc.)
- 3. Imposed costs (ATC, Airport Taxes, IATA, etc.)
- 4. Air freedoms and traffic rights: economic aspects
- 5. Evolution of air transport, US Airline Deregulation and EU Air Transport
- 6. Liberalisation Process: economic aspects
- 7. Ecological transition and increased cost of flights
- 8. Sustainable prices











Module V: TRANSPORT ECONOMICS

Details:

- Demand, supply and market balance
- Efficiency and inefficiency of markets
- Flexibility and externality
- Role of the public sector in the economy
- Production and costs
- Different types of market structures
- Monopoly, oligopoly and perfect/imperfect competition
- American and European approaches to air transport: deregulation versus liberalization
- Sustainable ricing
- Fuel surcharge and sustainable aviation fuel











- The Airline Deregulation Act 1978
- The International Air Transportation Competition Act 1979
- Air Transport Liberalization in the EU: Three Packages (1987, 1990 and 1992)
- Third Liberalization Package: *Regulations* (EEC) Nos 2407/92, 2408/92 2409/92
- Regulation (EC) No 1008/2008
- The Freedoms of the Air in the Chicago Convention of 1944: economic aspects
- International Air Services Transit Agreement:
- Technical and Commercial Aviation Freedoms
- Airline Cost Factors and Aviation Business: Available Seat Kilometres (ASK); Cost per Available Seat Kilometres (CASK); Revenue per Available Seat Kilometres (RASK); Revenue Passenger Miles (RPMs) and Revenue Passenger Kilometres (RPKs); Passenger Load Factor (PLF); Break-Even Analysis and Break-Even Point (BEP)
- Air Traffic Control (ATC) Charges
- Airport Taxes & Fees and other Aviation Charges;
- Airline taxes and fees and Impact on the sustainable development of air transport











Module VI: AIR CARGO SECTOR & BUSINESS JET

Specific training contents (12 hours)

- 1. Air Cargo sector: analysis of air routes
- 2. The P2F reconfiguration
- 3. The load factor
- 4. Logistics
- 5. The main freight airways
- 6. The role of the freight forwarder
- 7. Customs
- 8. The business jet: aircraft and fleet models
- 9. World market development: China case study
- 10. The sustainable business model
- 11. Sustainable development of air cargo
- 12. A NetJets Case: Warren Buffett and flight safety
- 13. Private aviation following the pandemic era: new challenges
- 14. Business jet sales
- **15.** Sustainable growth of private terminals











Module VI: AIR CARGO SECTOR & BUSINESS JET

Details:

- Air Cargo Market Analysis: participants, processes, markets, developments
- The Future of Sustainable Air Cargo Industry
- Air Cargo Management: Air Freight and the Global Supply Chain
- Air Cargo Services Supply
- The main freight airways
- Passenger-To-Freighter (P2F) conversions look a
- Air Cargo Load Factors (CLFs)
- Air Cargo Logistics: security, environment, sustainability and air cargo alliances
- Custom issues
- Role & Responsabilities of Freight Forwarders
- General aviation, commercial aircraft and business jets











- Models of management of aircraft fleet: different approaches
- China's Economy and its Influence on Global Markets
- Sustainable Business Model (SBM): definition and principles
- NetJets of Warren Buffett: an Aviation Business Jet Case Study
- Private Jets for Sale
- The Impact of the Pandemic on the Business Jet Sector
- The Future of Private Jet Market
- Sustainable Growth in Private Aviation
- The growth of private terminals and sustainability













Module VII LICENCES, CERTIFICATIONS, INSPECTIONS

Specific training contents (15 hours)

- 1. Aeronautical licences: requirements to obtain and maintain them
- 2. AOC (Air Operator Certificate): concept, requirements, certification procedures and the technical time
- 3. Ramp Inspection: SAFA/SANA procedures note











Module VII: LICENCES, CERTIFICATIONS, INSPECTIONS

Details:

- General structure of certification
- Annex 1 to the Convention on International Civil Aviation: Personnel Licensing
- Common Requirements for Most Types of Pilot Licenses
- Certification procedures : The Five Stage Certification Process
- Air Operator Certificate (AOC): definition and description
- The requirements for obtaining an AOC took
- Article 64 and Article 65 of EASA Basic Regulation (Regulation EU 2018/1139)
- Operational demonstration and inspection phase











- Ramp Inspection Programmes: description (SAFA/SACA)
- Commission Regulation (EU) No 965/2012
- Acceptable Means of Compliance (AMC) and Guidance Material (GM) to Part-ARO (consolidated version, issue 3, Amendment 10, 16 September 2019)
- Ramp Inspection Manual (RIM), Issue 1, 20 March 2019
- SACA (Safety Assessment of Community Aircraft)
- SAFA (Safety Assessment of Foreign Aircraft)
- SANA (Safety Assessment of National Aircraft)
- Performing Ramp Inspections
- EASA's role in the EU Ramp Inspections Programme











Module VIII: SUSTAINABLE DEVELOPMENT OF TRANSPORT

Specific training contents (9 hours)

- 1. Application of sustainability principles to the transport sector
- 2. European transport policy
- 3. Sustainable mobility
- 4. Logistics and intermodality for sustainable development of transport











Module VIII: SUSTAINABLE DEVELOPMENT OF TRANSPORT

Details:

International Framework

- The role of transport in sustainable development: the 1992 United Nation's Earth Summit and Agenda 21
- The transport sector's targets in the 2002 World Summit on Sustainable Development and the Johannesburg Plan of Implementation (JPOI)
- The central role of transportation and mobility in the sustainable development in the 2012 UN Conference on Sustainable Development (Rio +20)
- The 2016 Global Sustainable Transport Conference and the "Mobilizing Sustainable Transport for Development" Report
- Sustainable transport in the 2030 Agenda for Sustainable Development











European Framework

- Transport policy in the Rome Treaty 1957 (Article 3)
- Transport policy in the Single European Act 1986
- Transport policy in the Maastricht Treaty 1992 in the light of the sustainability principles
- European White Papers on Transport (1992, 2001, 2011)
- Trans-European Networks (TEN) Policy: evolution
- The current transport policy
- Transport Policy: concepts and objectives for a sustainable transport system
- European Transport Policy and Sustainable Mobility
- Intermodality and logistics as sustainable development tools
- From the EU ETS (Emissions Trading System) to the EU's Plan for a Green Transition
- The "Fit for 55" Package











Module IX: SUSTAINABLE DEVELOPMENT OF AIR TRANSPORT

Specific training contents (9 hours)

- **1.** Aviation Sustainability
- 2. Air pollution from aircraft
- 3. Noise pollution from aircraft
- 4. EU legislation on sustainable development of aviation
- 5. International legislation on sustainable development of aviation, with special attention to ICAO legislation (Annexes) and CORSIA (Carbon Offset and Reduction Scheme for International Aviation) Program, etc.













Module IX: SUSTAINABLE DEVELOPMENT OF AIR TRANSPORT

Details:

- The concept of sustainable development of air transport: evolution and international/EU legislation
- Sustainable development of air transport and ICAO Rules/Annexes
- ICAO Annex 16: Environmental Protection
- The Impact of Commercial Aircraft Activity on Air Quality near Commercial Airports
- Environmental effects of aviation on Air Quality
- Aviation, Air Pollution, and Climate Change
- Aircraft Noise Pollution: How are airports and airlines addressing the issue?
- Aircraft Noise Reduction Strategies and Analysis of the Effects
- CORSIA (Carbon Offset and Reduction Scheme for International Aviation) Program: ICAO Resolution A39-3











Module X: ECONOMICS AND BUSINESS MANAGEMENT. BUSINESS ACCOUNT Specific training contents (15 hours)

- 1. Aircraft Performance
- 2. The purchase of aircraft fuel (policy)
- 3. Supply and tenders
- 4. How to read the budget of an airline
- 5. Management control of airlines
- 6. Environmental management of airlines/ companies operating in the aviation sector











Module 10: ECONOMICS AND BUSINESS MANAGEMENT. BUSINESS ACCOUNT Details:

- Aircraft performance analysis
- Economic values related to aircraft performance factors
- Economic impact of introducing green aircraft technologies
- Aircraft Fuel
- Regulation (EU) 2021/1296
- Sustainable Aviation Fuels (SAF): current state and challanges













- Fuel policy and Fuel management: EASA New Rules
- Environmental policy of airline
- Supply market analysis
- The budget of an airline: the low-cost business model and the major airline business model
- How an airline's budget is organized: the budget items
- Management control processes (planning and budgeting, cost management and performance evaluation)
- Environmental Management System (EMS) for airports
- Environmental Management System (EMS) for airlines
- ICAO Report on Environmental Management System (EMS) in Aviation











Module XI COMPANY'S SUSTAINABLE DEVELOPMENT

Specific training contents (15 hours)

- **1.** Corporate sustainability approaches: regulatory, ethical and strategic approaches
- 2. Sustainability and corporate social responsibility
- **3.** Business ethics
- 4. Social and environmental budget
- 5. Risk management e operational processes
- 6. Management Sustainability Strategy
- 7. Circular Economy











Module XI: COMPANY'S SUSTAINABLE DEVELOPMENT Details:

- Sustainable development: a business definition
- Business strategies and policies for sustainable development
- Sustainable development objectives
- Development of a supportive corporate culture
- Development of measures and standards of performance
- European Commission strategy on CSR (Corporate Social Responsibility)
- Key documents for CSR/RBC (Corporate Social Responsibility/ Responsible Business Conduct) policy
- European Framework











- A Renewed EU strategy 2011-14 for Corporate Social Responsibility (2011)
- Comunication on the next steps for a sustenaible European Future (2016)
- Reflection paper: towards a sustainable Europe by 2030 (2019)
- EU Action plan on human rights and democracy 2020-2024 (2020)
- Circular economy: definition, importance and benefits
- Development of the circular economy in the EU
- EU Directive 2018/851 and Directive 2008/98/CE on waste
- Strategic Management in a Circular Economy













Module 12: AIR TRANSPORT STRATEGY, POLICY AND FINANCE

Specific training contents (12 hours)

- **1.** The Value Chain of Aviation
- 2. Airline Management
- 3. Competitive scenario
- 4. Business Model and Business Plan
- 5. Revenue Management
- 6. Productivity and costs
- 7. Fuel Hedging
- 8. The Distribution
- 9. The network











Module 12: AIR TRANSPORT STRATEGY, POLICY AND FINANCE

Details:

• Introduction to Airline Management

- Characteristics of Air Transport Industry
- Organizational Structure
- Airline management in a Competitive Environment
- Airline Marketing & Management
- Airline Operating Costs and Productivity
- Competitive Strategies in the Airline Industry
- Airline Industry Analysis











- Airline Industry/Aviation Value Chain Analysis
- From the Aviation Value Chain to the Aviation System
- Air Transport Policy and Regulation
- Airline Business Plan
- Business Models of the Aviation Industry
- Air Transport and Airline Planning and Policy
- Airline Revenue Management: definition and evolution
- Fuel hedging or fuel risk management
- Management of Aviation Distribution Networks
- Financing for aviation infrastructure











Module XIII

SUSTAINABLE DEVELOPMENT OF AIRLINE COMPANIES Specific training contents (15 hours)

- 1. Characteristics of the air carrier
- 2. Fuel policies: alternative fuels
- 3. Sustainable Aviation Fuel (SAF)
- 4. Emissions trading (ETS)
- 5. Climate change and the role of aviation
- 6. Airline Strategic Alliances
- 7. Air transport pricing strategy
- 8. Quality service and customer satisfaction
- 9. "Green" projects
- 10. Eco-Management and Audit Scheme (EMAS) Certification
- **11. Business management system**
- 12. Lobbying against EU environmental policies











Module XIII

SUSTAINABLE DEVELOPMENT OF AIRLINE COMPANIES

Specific training contents (15 hours)

- 13. Reduced fuel consumption and flight safety
- 14. Environmental risk management
- 15. Aviation sustainability of post-pandemic in a post-pandemic world
- 16. National Action Plans as a voluntary instrument for reducing CO2 emissions
- 17. ICAO's commitment: Resolution A39-2 "Consolidated statement of continuing ICAO policies and practices
- 18. National Action Plans as a voluntary instrument for reducing CO2 emissions
- **19. ICAO's commitment: Resolution A39-2** "Consolidated statement of continuing ICAO policies and practices related to environmental protection Climate change"
- 20. IATA's role in a sustainable recovery
- 21. Scrapping/dismantling of aircraft: pollution and circular economy
- 22. Legislation and consumption











Module 13: SUSTAINABLE DEVELOPMENT OF AIRLINE COMPANIES

Details:

- Sustainable Development Goals and Aviation Industry
- Decarbonization Reducing Emissions from Aviation
- EU ETS (Emission Trading System) and the "Polluter Pays Principle"
- "Cap and Trade" Principle
- Sustainable Aviation Fuel (SAF) and Alternative Fuels (e-fuels)
- EU Rules for Promotion of Sustainable Aviation Fuels under 'Fit for 55'
- Regulation (EU) 2023/2405 (ReFuelEU Aviation)
- Low Fuel Consumptions and its Impact on the Cost of Airline Operations
- Fuel Efficiency and Operational Factors Affecting the Rate of Fuel Consumption in Aircrafts
- Technologies and policies for improving Aicraft Fuel Efficiency
- The Growth in Greenhouse Gas Emissions from Commercial Aviation
- EU New Renewable Energy Rules











- Analysis of Global Airline Alliances as a Strategy for International Network Development
- The Airline Business and Global Airline Alliances
- Dynamic Pricing Strategy for Airlines
- State of the Art of Pricing Policy in Air Transportation
- Impact of Airline Service Quality on Customer Satisfaction
- EU Projects on Sustainable Aviation
- Sustainable Consumption in Commercial Aviation Operations
- EMAS (Eco-Management and Audit Scheme) Certification and Green Business
- State Action Plans for CO2 Emissions Reduction in the Aviation Sector
- Offsetting CO2 emission with CORSIA (Carbon Offsetting and Reduction for International Aviation)
- Fundamentals of Aviation Business Management
- Lobbing and Green Policies
- Flight Safety and Environmental Risk Management











- The Future of Aviation Post-Pandemic
- Sustainability Recovery of Air Transport as a Priority for Industry: the role of IATA
- Aviation Industry and European Climate Policy
- The Impact of Climate Change on Aviation
- ICAO Assembly Resolution A39-2 "Consolidated statement of continuing ICAO policies and practices related to environmental protection. Climate change"
- ICAO Assembly Resolution A39-3 "Consolidated statement of continuing ICAO policies and practices related to environmental protection Global Market-based measure (MBM) scheme" and subsequent resolutions.
- The Implementation of the Circular Economy in Commercial Aviation
- Commercial Aircraft Disassembly, Dismantling & Recycling (Scrapping) Market













Module XIV AIRPORT SYSTEM AND SUSTAINABILITY Specific training contents (3 hours)

- 1. Disposal of waste oils, aircraft washing, noise and air pollution
- 2. Use of APU (Auxiliary Power Units)
- 3. Sustainable development of airports











Module 14: AIRPORT SYSTEM AND SUSTAINABILITY Details:

- Aircraft Exterior Surface Cleaning: Best Practice
- An Environmentally Approach to Aircraft Washing
- Reducing Aircraft Noise Pollution (Engine Noise versus Airframe Noise)
- The Impact of Commercial Aircraft Activity on Air Quality
- Emissions from APU (Auxiliary Power Units) and Ground Power Units
- Sustainability in the Airport Ecosystems
- Airports' Sustanaility Strategy











Module XV: COMMUNICATION Specific training contents (3 hours)

- **1.** Communication with the media
- 2. Internal business communication
- **3. Institutional communication**











Module XV: COMMUNICATION Details:

- Media sociology
- Web languages
- Digital communication
- Digital information systems and trends
- Advertising languages
- Media text analysis
- Types of communication
- Public and political communication
- Sustainability and Corporate Communication
- ESG (Environmental Social Governance) Communication











Module XVI: FLIGHT OPERATIONS Specific training contents (18 hours)

- 1. Selection of personnel
- 2. The flight planning system
- 3. Operational coordination and operational guard
- 4. Technical-operational office
- 5. The network: aircraft performance in the operating environment
- 6. The flight dispatcher
- 7. Sustainable management of flight operations













Module 16: FLIGHT OPERATIONS

Details:

- Aviation Operations and Resources
- Aviatiation Recruiting Process
- Flight Plan: elements
- The Flight Planning System
- Coordination in ATC (Air Traffic Control)
- Operations Control Center
- Flight Dispatcher / Flight Operations Officer: role and responsabilities
- Technical Operations (Tech Ops)
- The Operating Environment and Aircraft Performance
- Performance Indicators
- Sustainable and Efficient Flight Operations
- Sustainable Management of Flight Operations











Module XVII GROUND OPERATIONS

Specific training contents (15 hours)

- 1. Tasks of the nominated person for ground operations
- 2. Ticket office
- 3. Balance operations
- 4. Ramp operations
- 5. Baggage Handling
- 6. Special assistance (PRM, minors..)
- 7. Handling of dangerous goods
- 8. Sustainable management of ground operations













Module XVII: GROUND OPERATIONS

Details:

- Regulation (EU) No 965/2012 AIR OPS
- IATA Standard Ground Handling Agreement (SGHA)
- Ground assistance services
- Ground Handling Service Provider (GHSP)
- Draft GH Regulation
- Ground Operations Manual











- Manual on Collaborative Air Traffic Flow Management (ATFM)
- Ground support equipment
- APRON management
- Turn Round Time (TRT)
- IATA Dangerous Goods Regulations (DGR)











Module XVIII: TRAINING

Specific training contents (15 hours)

- 1. How to establish an ATO (Air Training Organization)
- 2. Regulatory requirements
- 3. Dangerous goods, security (Legislative Decree no. 81/2008)
- 4. Training programmes
- 5. Transition programmes
- 6. Licences of personnel
- 7. Training on sustainability

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Module 18: TRAINING

Details:

- Easy Access Rules
- Structure & Management of an ATO and FSTD Operator
- Training on Dangerous Goods & Security
- Part-ORO Reg. (EU) 965/2012
- Crew Resource Management (CRM) Training Compliance Checklist
- - Operator Proficiency Check (OPC)













Module XIX: HUMAN FACTOR & SAFETY

Specific training contents (15 hours)

- 1. Theoretical foundations of human factor
- 2. Human error
- 3. Human performance and limitations
- 4. Safety models for sustainable development of air transport
- 5. Team work (CRM Crew Resource Management, NOTECHS Non-Technical Skills) in professions at risk
- 6. Organisational factors and organisational sustainability
- 7. Sustainable automation and ergonomics
- 8. Psychological resilience and peer support (Wellbeing in aviation: Reg. (EU) 2018/1042)











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Module 19: HUMAN FACTOR & SAFETY

Details:

- Worldwide jet fleet
- Accident investigation reports
- Human Factors in Aviation
- SHEL (Software, Hardware, Environment & Liveware) Model
- Non punitive incident reporting systems (Air/Ground Safety Reports; Confidential Reports; Surveys)
- Problem Solving











- Barriers to communication
- Leadership & Followership qualities
- Principles of Human Performance
- HPL in Safety & Security (Modello ICAO-Doc 9808)
- Threat & Error Management/TEM
- Types of communication

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- Human-AI partnerships: symbiotic teams and crews
- Urban Air Mobility & Human Factors











Module XX: SECURITY

Specific training contents (9 hours)

- 1. Aviation security legislation
- 2. Infrastructures
- **3. Training of staff**
- 4. On board Inspections
- 5. Cybersecurity and sustainability

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Module 20: SECURITY

Details:

- Standards ICAO & ECAC
- Security measures in Airport
- Security Restricted Area & CPSRA(Critical Part of Security Restricted Area)
- Control Room
- Reg. (UE) 2015/1998: detailed measures for the implementation of the common basic standard on aviation security
- New Technology for Passenger Screening











- Security Culture
- Critical Accident/Incident Management Plan
- Social Engineering & cybersecurity







