

Comprehensive Introduction to Aviation: From Ground to Sky

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Lisbon (Portugal)

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The aviation logistics landscape is evolving rapidly, shaped by global trade growth, technological advancements, and increasing security demands. Efficient air cargo operations are critical to keeping global supply chains resilient, timely, and cost-effective. To excel in this environment, professionals need more than foundational logistics knowledge—they must understand the latest innovations, digital tools, and strategic approaches that define modern aviation supply chains.

Through practical exercises, strategic insights, and real-world case studies, attendees leave equipped to optimize operations, enhance performance, and confidently navigate the complexities of global aviation logistics.

By the end of this program, participants will be able to:

- Understand the full aviation supply chain and air freight logistics operations.
- Apply international best practices in cargo handling, transportation, and warehousing.
- Analyze industry trends, regulatory requirements, and emerging aviation technologies.
- Develop strategies to improve cargo efficiency and reduce operational costs.
- Implement risk management and security measures in air cargo operations.
- Utilize digital tools, analytics, and automation to boost logistics performance.

Day 1 - Introduction to Aviation Logistics & Supply Chain Management

- Overview of the global aviation industry and integrated supply chains.
- Key stakeholders and operational roles in air freight logistics.
- Market dynamics, global trade influences, and cargo industry challenges.
- Regulatory frameworks, compliance standards, and international best practices.

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Day 2 - Air Cargo Operations & Handling

- Cargo classifications and special handling requirements dangerous goods, perishables, pharmaceuticals, live animals.
- Cargo acceptance procedures, documentation, and digital tracking systems.
- Aircraft loading fundamentals, ULD types, and weight distribution principles.
- Ground handling equipment, safety standards, and operational best practices.

Day 3 - Supply Chain Optimization in Aviation

- Inventory management, demand forecasting, and supply planning.
- Warehouse layout design, automation, and operational efficiency strategies.
- Transportation routing, freight scheduling, and multimodal integration.
- Key performance indicators, supply chain visibility, and benchmarking techniques.

Day 4 - Technology & Innovation in Aviation Logistics

- Digital transformation across cargo operations and logistics workflows.
- E-freight, paperless processing, and integrated logistics platforms.
- Applications of IoT, AI, blockchain, robotics, and automation in air cargo.
- Data analytics, predictive tools, and decision-support systems.

Day 5 - Risk Management, Security & Future Trends

- Identifying, assessing, and mitigating risks in aviation logistics.
- Cargo security protocols, compliance standards, and threat prevention.
- Sustainability, green logistics, and environmental considerations.
- Future trends, smart airports, autonomous systems, and digital twins.

Individual Impact

Participants will leave the program with:

- A tailored air freight logistics strategy aligned with their organization.
- Practical tools to reduce operational costs and optimize cargo workflows.
- Skills to design efficient, productivity-focused warehouse layouts.
- Comprehensive risk management and cargo security frameworks.
- Analytical methods and actionable frameworks to enhance supply chain performance.

Organizational Impact

Organizations benefit through:

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A graphic of a chessboard with several chess pieces. A large gold king piece is in the foreground, with a silver pawn and a gold pawn behind it. The board is checkered, and there are concentric circles in the background.

- Streamlined logistics operations and better resource utilization.
- Strengthened safety, compliance, and cargo security.
- Improved financial performance via optimized logistics processes.
- Greater resilience and agility in global supply chains.
- Faster adoption of innovative technologies and modernized cargo operations.

Training Methodology

The course employs an applied, interactive approach that includes:

- Real-world aviation logistics case studies and industry benchmarks.
- Hands-on exercises in cargo planning, warehousing, and process mapping.
- Practical tools, templates, and frameworks for immediate application.
- Group activities and scenario-based problem-solving.
- Expert-led sessions offering actionable insights and operational guidance.

Beyond the Course

After completing the program, participants will be ready to:

- Lead logistics optimization initiatives and improve cargo performance.
- Introduce automation, analytics, and digital innovations into operations.
- Enhance security, compliance, and risk mitigation in air cargo.
- Drive sustainable and future-ready aviation supply chain strategies.

A graphic of a chessboard with several chess pieces (a king, a queen, and a pawn) on it, set against a background of concentric circles.

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