Aviation Logistics: Mastering Supply Chain and Air Freight

31 January – 4 February 2027
Cairo (Egypt)



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Why This Course

The aviation logistics ecosystem is evolving rapidly, driven by global trade growth, digital transformation, new cargo technologies, and heightened security requirements. Air cargo operations play a critical role in ensuring global supply chains remain efficient, resilient, and responsive. To keep pace with this dynamic environment, professionals must understand not only traditional logistics principles but also the emerging innovations shaping the future of aviation supply chains.

The Aviation Supply Chain & Air Freight Logistics Excellence Program is an intensive 1-week training designed for aviation logistics professionals, cargo managers, supply chain specialists, freight forwarders, and stakeholders involved in air cargo operations. This program offers a holistic understanding of air freight logistics—from cargo handling and warehousing to digital innovation, risk management, and sustainability.

Participants gain practical skills, analytical tools, and strategic frameworks to optimize operations, improve performance, and navigate the complexities of global aviation logistics.

What You'll Learn and Practice

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

- Understand end-to-end aviation supply chain management and air freight logistics
- Apply global best practices in cargo handling, transportation, and warehouse operations
- Analyze aviation logistics trends, challenges, and emerging technologies
- Design strategies to optimize air freight processes and reduce operational costs
- Implement robust risk management and security protocols for air cargo operations
- Leverage digital tools and data-driven insights to enhance logistics performance

The Program Flow

Day 1 - Introduction to Aviation Logistics & Supply Chain Management

- Overview of the aviation industry and its global supply chain network
- Key components and stakeholders in air freight logistics
- Global challenges, market trends, and cargo industry dynamics
- Regulatory frameworks, compliance requirements, and industry standards



Day 2 - Air Cargo Operations & Handling

- Air cargo classifications and special handling needs dangerous goods, perishables, live animals
- Cargo acceptance, documentation, and digital tracking systems
- Aircraft loading principles, ULD management, and weight distribution
- Ground handling operations, equipment, and operational best practices

Day 3 - Supply Chain Optimization in Aviation

- Inventory management, demand forecasting, and aviation supply planning
- Warehouse layout, automation, and management strategies for air cargo storage
- Optimizing transportation networks and freight routing
- Performance metrics, supply chain visibility, and operational benchmarking

Day 4 - Technology & Innovation in Aviation Logistics

- Digital transformation in air freight and cargo operations
- E-freight, paperless processing, and system integration
- Applications of IoT, AI, blockchain, and robotics in aviation supply chains
- Data analytics and predictive tools to enhance cargo decision-making

Day 5 - Risk Management & Future Trends

- Risk identification, assessment, and mitigation strategies in air cargo operations
- Cargo security requirements, compliance, and threat prevention measures
- Environmental and sustainability considerations in modern aviation logistics
- Future trends, industry innovations, and strategic outlook for the air cargo sector

Individual Impact

Participants will leave with:

- A fully developed air freight logistics strategy customized for their organization
- Tools to implement cost-reduction initiatives in cargo operations
- The ability to design an efficient, productivity-focused warehouse layout
- A risk management and security plan tailored to air cargo operations
- Practical frameworks to enhance supply chain performance and competitiveness

Organizational Impact

Organizations will benefit through:



- Improved operational efficiency and optimized logistics workflows
- Enhanced safety, compliance, and security across air cargo processes
- Stronger financial performance through cost-saving and optimization strategies
- Greater agility and resilience in global aviation supply chain operations
- Adoption of innovative technologies that modernize cargo operations

Training Methodology

This program utilizes an applied, interactive learning approach including:

- Real-world aviation logistics case studies and industry benchmarks
- Hands-on exercises in cargo planning, warehousing, and process mapping
- Digital tools, templates, and analysis frameworks for immediate use
- Group projects and scenario-based problem-solving
- Expert-led sessions linking global best practices with operational realities

Beyond the Course

Participants will return ready to:

- Lead logistics optimization initiatives and enhance cargo performance
- Introduce automation, analytics, and innovation into aviation logistics workflows
- Strengthen security, compliance, and risk mitigation in air freight operations
- Contribute to sustainable and future-ready aviation logistics strategies

