Air Cargo Logistics and Supply Chain Optimization Training Course



14 - 18 Dec 2026

Barcelona

5900 € (Per Person)

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Course Introduction / Overview:

This comprehensive training course provides an in-depth exploration of the dynamic air cargo industry and its critical role within global supply chain management. Participants will gain a robust understanding of air freight logistics, from fundamental principles to advanced optimization strategies. The curriculum is designed to bridge the gap between operational execution and strategic planning, empowering professionals to navigate the complexities of international air transport with confidence. Drawing on established frameworks, such as those discussed by the renowned academic Martin Christopher in his seminal work "Logistics & Supply Chain Management," this course emphasizes the importance of agility and resilience in modern supply chains. At BIG BEN Training Center, we focus on practical application, ensuring that participants can implement learned concepts to enhance efficiency, reduce costs, and improve service levels. This program delves into key areas including regulatory compliance, special cargo handling, security protocols, and the impact of digitalization, preparing attendees to lead and innovate in the fast-paced world of air logistics.

Target Audience / This training course is suitable for:

- Logistics and Supply Chain Managers.
- Air Cargo Operations Staff and Supervisors.
- Freight Forwarding Agents and Managers.
- Airline Cargo Sales and Revenue Management Teams.
- Warehouse and Ground Handling Professionals.
- Procurement and Sourcing Specialists.
- Export and Import Managers.
- Compliance and Regulatory Officers.
- Supply Chain Analysts and Consultants.

Target Sectors and Industries:

- Airlines and Air Cargo Carriers.
- Freight Forwarding and Logistics Companies.
- Manufacturing and Automotive Industries.
- Pharmaceutical and Healthcare Sectors.
- Retail and E-commerce Businesses.
- Aerospace and Defense Industries.
- Perishable Goods and Agriculture Sectors.
- Government Agencies and International Trade Bodies.

Target Organizations Departments:

- Logistics and Distribution.
- Supply Chain Management.
- Operations and Ground Handling.
- Procurement and Purchasing.
- Warehouse and Inventory Management.
- International Trade and Compliance.
- Sales and Business Development.
- Security and Risk Management.

Course Offerings:

By the end of this course, the participants will have able to:

- Develop a comprehensive understanding of the global air cargo industry and its ecosystem.
- Master the principles of air cargo operations, including ground handling and ULD management.
- Navigate complex air freight documentation, including the transition to e-AWB.
- Implement best practices for handling special cargo, including dangerous goods and perishables.
- Analyze and apply international air cargo security regulations and compliance standards.
- Integrate air logistics strategies into broader supply chain network designs.
- Evaluate and apply new technologies for enhancing supply chain visibility and efficiency.
- Formulate cost-reduction and revenue optimization strategies for air freight operations.
- Assess the impact of sustainability and future trends on the air logistics sector.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, engaging, and centered on practical application. We believe that adult learning is most effective when it combines theoretical knowledge with hands-on experience. This course moves beyond traditional lectures to incorporate a rich blend of learning techniques. Participants will engage in detailed case study analyses of real-world air cargo challenges, allowing them to dissect complex scenarios and develop viable solutions. Collaborative group discussions and team-based exercises will foster peer-to-peer learning and encourage the exchange of diverse perspectives from various industry backgrounds. Interactive workshops will provide a platform for applying concepts like route optimization and warehouse process mapping in a simulated environment. Our expert instructors facilitate a dynamic learning atmosphere, providing continuous feedback and guiding participants to connect course content directly to their professional roles. The program emphasizes problem-solving and critical thinking, ensuring that attendees leave with not just knowledge, but also the skills and confidence to drive tangible improvements in their organizations.

Course Agenda (Course Units):

Unit One: Fundamentals of Air Cargo and Global Logistics

- Introduction to the air cargo industry and its key stakeholders.
- The role of air freight within the global supply chain.
- Understanding IATA, ICAO, and other regulatory bodies.
- Principles of air cargo economics and market dynamics.
- Types of aircraft and Unit Load Devices (ULDs).
- Air cargo terminology and industry standards.
- The interconnectedness of freight forwarders, airlines, and ground handlers.

Unit Two: Air Cargo Operations and Documentation Management

- The air cargo acceptance and handling process.
- Warehouse operations and best practices for freight management.
- Principles of load planning and aircraft weight and balance.
- Master Air Waybill (MAWB) and House Air Waybill (HAWB).
- The transition from paper to electronic Air Waybill (e-AWB).
- Customs clearance procedures for air freight.
- Managing cargo claims and liability.

Unit Three: Special Cargo Handling, Security, and Compliance

- Regulations for the transport of Dangerous Goods (DGR).
- Best practices for handling perishable and temperature-sensitive cargo.
- Procedures for Live Animals Regulations (LAR).
- Managing valuable, vulnerable, and oversized cargo.
- Global air cargo security programs and threat mitigation.
- Screening technologies and secure supply chain protocols.
- Compliance with international trade and customs laws.

Unit Four: Integrating Air Cargo into the Global Supply Chain

- Designing and managing global logistics networks.
- The role of air cargo in multimodal transportation.
- Supply chain visibility and tracking technologies.
- Inventory management strategies for air-shipped goods.
- Lean principles and waste reduction in air logistics.
- Digital transformation and the impact of data analytics.
- Building resilient and agile air cargo supply chains.

Unit Five: Strategic Management and Future Trends in Air Logistics

- Air cargo pricing, rating, and revenue management strategies.
- Cost analysis and optimization in air freight operations.
- Developing effective air cargo sales and marketing plans.
- Sustainability initiatives and green logistics in aviation.
- The future of air cargo: drones, automation, and artificial intelligence.
- Risk management and contingency planning in air logistics.
- Developing a strategic plan for air cargo business growth.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

As digitalization accelerates, how can the air cargo industry balance the efficiency gains from automation with the need for human oversight in complex, high-stakes logistical decisions?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by adopting a holistic, strategic perspective on air cargo logistics, moving beyond purely operational or regulatory training. While many programs focus narrowly on compliance or handling procedures, our curriculum is uniquely designed to integrate these essential functions into the broader context of global supply chain management. We emphasize the "why" behind the "how," enabling participants to make informed, strategic decisions that enhance overall supply chain performance. The content is forward-looking, dedicating significant attention to emerging trends such as digitalization, sustainability, and supply chain resilience, which are critical for future-proofing professional skills. Rather than simply presenting information, our methodology, rooted in case studies and interactive problem-solving, challenges participants to think critically and apply concepts to complex, real-world scenarios. This approach fosters a deeper, more applicable understanding of how to optimize air cargo networks for cost, speed, and reliability. The course provides a unique bridge between the operational tarmac and the strategic boardroom, cultivating leaders who can manage both the technical details and the big-picture objectives of modern air logistics.