Global Airports Cargo and Supply Chain Operations and Management Training Course



19 - 23 Oct 2026

Lisbon

4500 € (Per Person)

Ref: #AIR3128_70627

Course Introduction / Overview:

This comprehensive training course is designed to provide participants with an in-depth understanding of the complexities and critical functions of airport cargo and supply chain operations. The air cargo industry serves as a vital artery of global trade, and mastering its intricacies is essential for professionals seeking to enhance efficiency, compliance, and overall performance. The course will cover everything from foundational principles to advanced strategies, addressing modern challenges like e-commerce, perishable goods transport, and the increasing demand for speed and reliability. Drawing from the work of leading academic authors like Rico Merkert, whose contributions to air transport management and logistics are widely recognized, this program explores the core concepts outlined in key texts such as "The Palgrave Handbook of Supply Chain Management." Through this course, BIG BEN Training Center aims to equip participants with the skills needed to navigate a dynamic industry. Participants will find out about the roles of various stakeholders, the importance of regulatory compliance, and the application of technology to streamline airport cargo processes, ensuring they are well-prepared to contribute to their organizations' success.

Target Audience / This training course is suitable for:

- Logistics and supply chain managers.
- Air cargo and freight forwarding professionals.
- Airport operations and ground handling staff.
- Customs and security personnel.
- Airline cargo sales and management teams.
- Warehouse and inventory supervisors.
- Government agency employees involved in trade and transport.

Target Sectors and Industries:

- Aviation and airline industry.
- Logistics and freight forwarding companies.
- Manufacturing and retail sectors with global supply chains.
- Government and regulatory bodies.
- E-commerce businesses and international traders.
- Defense and aerospace industries.
- Pharmaceutical and perishable goods sectors.

Target Organizations Departments:

- Supply Chain and Logistics Department.
- Operations and Planning Department.
- Procurement and Sourcing Department.
- Sales and Business Development Department.
- Compliance and Regulatory Affairs Department.
- Customs and Trade Management Department.
- Warehouse and Inventory Management Department.

Course Offerings:

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

- Design and manage effective airport cargo supply chain networks.
- Streamline air freight processes from origin to destination.
- Ensure compliance with international air cargo regulations and security standards.
- Manage special cargo handling, including dangerous goods, perishables, and live animals.
- Improve operational efficiency and reduce costs through process optimization.
- Apply technology and data analytics to enhance supply chain visibility and performance.
- Develop robust risk management and contingency plans for disruptions.

Course Methodology:

This training course uses an interactive and practical approach to ensure a deep understanding of airport cargo and supply chain management. We will use a variety of methods, including group discussions, hands-on activities, and real-world case studies to demonstrate key concepts and best practices. Participants will engage in collaborative problem-solving exercises, simulating complex air cargo scenarios to test their decision-making skills in a low-risk environment. The course includes workshops on customs procedures and documentation, where you can practice completing essential forms and declarations. We will also analyze famous case studies, such as the logistics behind perishable goods transport from Kenya to Europe or the challenges faced by airlines during a global pandemic, to illustrate the principles discussed. BIG BEN Training Center believes this method of learning is more effective and will provide participants with the practical experience they need to excel. The program encourages open dialogue and feedback, creating an environment where participants can share their experiences and find solutions to specific challenges they face in their own workplaces.

Course Agenda (Course Units):

Unit One: Foundations of Air Cargo Logistics and Supply Chain

- The role of air freight in global trade.
- Key stakeholders in the air cargo supply chain.
- Air cargo industry regulations and governance.
- Introduction to airport cargo infrastructure and facilities.
- Overview of the air waybill and documentation.
- Cargo security and screening procedures.
- Specialized cargo types and their handling requirements.

Unit Two: Cargo Operations and Terminal Management

- Cargo acceptance and ground handling processes.
- Warehouse management and inventory control.

Unit Load Device (ULD) management and utilization.

- Cargo-to-aircraft loading and offloading procedures.
- Customs clearance and border control processes.
- Airside safety and ramp operations for cargo.
- Optimizing terminal layout for efficiency.

Unit Three: Supply Chain Integration and Technology

- Integrating air cargo with multimodal transport.
- E-commerce logistics and fulfillment in air cargo.
- Supply chain visibility and tracking technologies.
- The use of blockchain and IoT in air cargo.
- Data analytics for demand forecasting and capacity planning.
- Automation and robotics in cargo handling.
- Implementing smart cargo solutions.

Unit Four: Regulatory Compliance and Risk Management

- International Civil Aviation Organization (ICAO) and IATA regulations.
- Dangerous Goods Regulations (DGR).
- Security protocols and threat assessment.
- Risk management in the air cargo supply chain.
- Emergency response and contingency planning.
- Audits and inspections for regulatory compliance.
- Sustainable practices and environmental considerations.

Unit Five: Strategic Planning and Future Trends

- Developing an air cargo strategy.
- Analyzing market trends and competitive dynamics.
- Managing costs and revenue streams in air freight.
- The future of air cargo, including drones and hyperloop.
- Building resilient and agile supply chains.
- Customer relationship management in the air cargo industry.
- Career development in airport cargo operations.

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:

What are the most significant security vulnerabilities in the air cargo supply chain, and how can stakeholders collaborate to mitigate them without compromising operational speed?

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

This course stands out because of its focus on the dynamic intersection of airport operations and global supply chain management, offering a truly holistic perspective that goes beyond basic logistics. Many courses treat these topics separately, but this program integrates them to show how effective airport management directly impacts the entire supply chain's performance. We move past theoretical concepts to provide practical, actionable insights based on real industry challenges, such as the logistics of transporting temperature-sensitive pharmaceuticals or managing peak season e-commerce volume. The curriculum is meticulously crafted to reflect the latest trends and technologies in the industry, from automation and digital tracking to advanced security protocols. By including a variety of interactive exercises, we ensure that participants are not just learning but are actively applying their knowledge to solve complex problems, a method that builds confidence and practical expertise. The course also gives participants a clear understanding of the regulatory landscape, which is essential for ensuring compliance and avoiding costly mistakes. This program is designed to create well-rounded, forward-thinking professionals ready to lead in the evolving world of air cargo and supply chain management.