SUPPLY CHAIN AND AIR FREIGHT IN AVIATION LOGISTICS



GENTEX®
TRAINING CENTER

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Introduction

Air freight earns its cost when speed matters more than price, and it fails when cargo misses a flight, a security check stalls a shipment, or documentation does not match the consignment. Aviation logistics adds aircraft parts, dangerous goods, and time-critical handling to the usual supply chain burden. This Supply Chain And Air Freight In Aviation Logistics Training Course gives air cargo, logistics, and supply chain professionals a complete working method for that environment. Participants learn air cargo processes, ULD handling, security and customs rules, aviation spares logistics, and freight cost and performance management.

Supply Chain And Air Freight In Aviation Logistics Course Objectives

- Apply air cargo process flow from booking to delivery.
- Apply IATA standards, resolutions, and air waybill requirements.
- Plan ULD build-up, loading, weight, and balance control.
- Apply aviation security rules: known consignor, screening, and ACC3.
- Apply customs and trade compliance to air consignments.
- Handle special cargo: dangerous goods, perishables, and AOG parts.
- Manage aviation spares logistics and service level commitments.
- Apply air cargo rates, chargeable weight, and surcharge calculation.
- Measure performance with transit time, on-time performance, and damage rate.
- Apply air cargo digital platforms and e-freight documentation.

Course Methodology

- Facilitated sessions built on real air waybills, cargo records, and rate sheets.

- Case workshops on missed flights, security holds, and AOG handling.
- Chargeable weight, rating, and cost calculation exercises with live data.
- ULD and special cargo handling practice sessions.
- Group exercise on an air freight management improvement plan with targets.

Who Should Take This Course

- Air cargo and freight forwarding staff.
- Airline cargo and ground handling officers.
- Supply chain and logistics managers in aviation.
- Aviation spares and MRO procurement staff.
- Customs, security, and compliance officers.
- Warehouse and ULD handling supervisors.

Supply Chain And Air Freight In Aviation Logistics Course Outlines

Day 1: Air Cargo Fundamentals and Standards

- Structure of the air cargo industry: carriers, forwarders, and handlers.
- IATA resolutions and industry standards.
- Air waybill: functions, completion, and common errors.
- Cargo acceptance process and cut-off times.
- Aircraft types and cargo capacity by hold configuration.
- Service levels: express, consolidated, and deferred.
- Digital platforms: e-AWB and e-freight.

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Day 2: ULD, Loading, and Weight Control

- Unit load devices: types, identification, and serviceability.
- ULD build-up planning and contour limits.
- Weight and balance documentation.
- Load control and tie-down requirements.
- Special loads: outsized, heavy, and temperature-sensitive.
- Ground handling equipment and loading procedures.
- Damage reporting and ULD repair management.

Day 3: Security, Customs, and Compliance

- Aviation security framework for cargo.
- Known consignor, regulated agent, and ACC3 requirements.
- Screening methods and secure supply chain integrity.
- Customs procedures for air consignments.
- Trade compliance: licences, sanctions, and export control.
- Dangerous goods classification and documentation.
- Security incidents and regulatory notification.

Day 4: Aviation Spares and Special Cargo Logistics

- AOG handling and aircraft-on-ground priority logistics.
- Spares pooling, exchange programmes, and distribution.
- MRO supply chain and repair cycle management.
- Perishable, pharmaceutical, and cold chain air cargo.
- Live animal and valuable cargo handling basics.

- Returns, cores, and reverse flows in aircraft parts.
- Service level agreements with airlines and MRO providers.

Day 5: Cost, Performance, and Improvement

- Chargeable weight, volumetric calculation, and rating.
- Rate structures, surcharges, and security fees.
- Total air freight cost and speed versus cost trade-offs.
- Transit time analysis and schedule reliability.
- KPIs: on-time performance, damage rate, and cost per kilogram.
- Claims and cargo irregularity handling.
- Building an air logistics improvement roadmap.

Conclusion

By successfully completing the Supply Chain And Air Freight In Aviation Logistics Training Course, participants will have acquired a thorough working knowledge of air cargo process flow, IATA standards and air waybill practice, ULD and load control, aviation security and customs compliance, special and AOG cargo handling, rate and chargeable weight calculation, and air logistics performance measurement. They will leave able to move cargo on schedule, keep shipments compliant with security and customs rules, and control air freight cost with evidence. Gentex Training Center delivers this programme with air cargo and aviation logistics practitioners working in live operations.

FAQs for the Supply Chain And Air Freight In Aviation Logistics course

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Q1 What is the "Supply Chain And Air Freight In Aviation Logistics" course about?

It is a five-day programme on moving cargo by air and supplying aviation operations. It covers air cargo process flow, IATA standards and air waybills, ULD and load control, security and customs compliance, dangerous goods and AOG handling, freight rating, and performance measurement.

Q2 What are the key benefits of the "Supply Chain And Air Freight In Aviation Logistics" course?

Participants dispatch cargo against schedules with correct documentation and cut-off discipline, keep consignments compliant with aviation security and customs rules, and handle AOG and special cargo without delays caused by process gaps. They also control air freight cost with proper chargeable weight and rate checking.

Q3 What skills will I gain from the "Supply Chain And Air Freight In Aviation Logistics" course?

You will gain air cargo process and documentation management, ULD build-up, load control, and special cargo handling, aviation security and customs compliance application, and air freight rating, cost, and performance management.

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Q4 What tools, methods, or standards are covered in the "Supply Chain And Air Freight In Aviation Logistics" course?

The course works with air cargo industry structure covering carriers, forwarders and handlers, IATA resolutions and industry standards, air waybill functions and completion, cargo acceptance and cut-off procedures, aircraft hold configuration and cargo capacity, express, consolidated and deferred service levels, e-AWB and e-freight platforms, unit load device types, identification and serviceability, ULD build-up planning and contour limits, weight and balance documentation, load control and tie-down requirements, outsized, heavy and temperature-sensitive load handling, ground handling equipment procedures, ULD damage reporting and repair management, the known consignor, regulated agent and ACC3 security frameworks, screening methods and secure supply chain integrity, customs procedures for air consignments, trade compliance covering licences, sanctions and export control, dangerous goods classification and documentation, AOG priority logistics, spares pooling and exchange programmes, MRO supply chain and repair cycle management, perishable, pharmaceutical and cold chain air cargo handling, returns and core reverse flows, chargeable weight and volumetric calculation, rate structures, surcharges and security fees, transit time analysis and schedule reliability, and KPIs covering on-time performance, damage rate and cost per kilogram.

Q5 How is the "Supply Chain And Air Freight In Aviation Logistics" course applied in real-world practice?

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Teams apply it when booking a consolidated air shipment against a cut-off, building a ULD within contour limits, screening a consignment under known consignor rules, dispatching an AOG spare on the next available flight, checking chargeable weight against a forwarder invoice, and reviewing on-time performance and damage rate at a logistics review.