



**Asia Masters Center**

# Aviation Preparatory Operations Management, Strategic Logistics & Effective Supply Chain



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## Aviation Preparatory Operations Management, Strategic Logistics & Effective Supply Chain

### Course Objective

- Demonstrate ability to systematically analyse operational and supply chain strategies in the light of the emerging supply chain frameworks and business models;
- Develop business, operations and supply chain management strategies using strategic alignment model;
- Effectively apply the alignment model and assess the strategic needs of business and supply chain networks;
- Evaluate emerging operations initiatives for supply chain collaboration and their strategic implication;
- Integrate organisational changes related to supply chain strategy implementation;
- Build effective informal collaboration skills with others through project work, in culturally, and linguistically diverse contexts.
- Appreciate the implication of the impacts of logistics & materials management and purchasing functions both internally and external to the organization
- Apply the concepts of international logistics/freight procedures & documentation
- Appreciate the importance of effective resources planning
- Learn how to effectively manage inventory utilizing selective inventory strategic policies



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- To appreciate the impact of supply chain and inventory upon the profitability of the organization
- apply category management thinking
- understand and apply: MRP, JIT, Kaizen, Kanban strategies
- effectively optimise resource planning and overall efficiency
- establish effective inventory management controls
- appreciate the importance of audit trails and transparency
- apply risk management techniques to supply chain and inventory management
- take away specific action plans to further develop their role and organizational benefit



### Target Audience

- Senior and mid-level managers and consultants responsible for domestic and international supply chain and Aviation logistics operation systems
- Aviation Operations, purchasing, inventory control and transportation managers who want to ensure high customer service levels, low system-wide costs and smooth production with as little inventory as possible
- Managers who want to gain a deeper understanding of the role supply chains play in a company's overall business strategy



## Course Outline

### ➤ Day 1

- Introduction to Aviation Warehousing Management
- Objectives of warehousing
- The modern warehouse
- The warehousing cycle
- Problems and challenges in warehousing
- Warehousing and inventory costs
- Customer service in warehousing
- Inventory Classification and Record Accuracy
- Types of inventory
- The ABC classification
- Uses of the ABC classification
- Inventory record accuracy
- Reasons for poor accuracy
- Periodic and cycle counting
- Systems and methodology of counting
- Knowing what is inside the warehouse
- Knowing how much is inside the warehouse
- Storage and Material Handling Systems
- Layout of the warehouse
- Size and shape of the warehouse
- Storage utilization and organization
- Types of storage systems
- Fixed versus random location
- Material handling equipment
- Material handling equipment checklist
- Improving the receiving/issuing material operations

➤ **Day 2**

- Role and importance of supply chain
- Overview of supply chain functions within the organisation
- Supply chain structures and reporting
- The supply chain Compass – strategic assessment & improvement toolkit
- Engaging with stakeholders
- Aviation Procurement – the gateway to the supply chain
- Defining the role and responsibilities of the procurement function
- Spend area analysis – strategic v tactical
- Whole life cost analysis
- Defining organisational standards for optimum efficiency within the supply chain – including bar-coding, RFID, pack size
- Supplier contract management – contracting with the supply chain in mind (full templates will be provided to enable delegates to measure and manage: contracts, service and quality levels, spend and volumetric)
- Global standards
- Aviation Strategic Logistics
- Defining the role and responsibilities of the logistics function
- Utilizing the supply chain compass within logistics
- Establishing optimized logistics – journey planning, use of technology
- Hub strategies
- Multi modal logistics – opportunities and challenges within shipping, road, air, rail
- Environmental management and contribution opportunities
- The strategic warehouse
- Defining the role and responsibilities of the warehouse function
- Utilizing the supply chain compass within the warehouse

- Space allocation and product driven category management strategies
- Inventory management strategies – including optimum stock levels, obsolete/slow moving stock
- Effective forecasting and planning
  
- **Day 3**
- The Role of Aviation Logistics and Supply Chain Management in Modern Businesses, Supply Chain Management Models and new trends.
- Evaluate logistics role in the current Aviation business process
- The evolution of Supply Chain management and Supply Chain dynamics
- The application of a Supply Chain approach
- How to use and apply the Supply Chain Aviation Operations Reference Model (SCOR)
- Identifying Supply Chain Instabilities and Risks
- Internal supply chain risks
- PESTLE risks
- Inventory risks
- Disruption risks
- Security risks
- Procurement risks

➤ **Day 4**

- Linking Strategies and Improvement in Cost and Productivity in Procurement
- To ensure that the procurement strategies are in harmony with the time-scales and strategic objectives of the corporate plan
- Examine decision factors that will particularly impact sound purchasing techniques affecting the bottom line
- Analyze ‘contract strategies’, ‘category plans’, ‘procurement strategies’ and ‘commodity strategies’ which are critical to the overall procurement strategy
- Developing Spend Analysis for establishing purchase prices index
- Examine the Total Cost of Ownership
- Analyze Supplier portfolio and classification utilizing and applying Kraljic’s Matric and Porter’s 5 Forces
- Formulate, plan and organise Strategic purchasing plans
- Illustrate the effective order-cycle and lead-time effect on Purchasing
- Plan and organise for negotiations



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### ➤ Day 5

- Strategic Aviation Supply in Materials Management
- Apply the role of Materials Management in the proper tracking of different goods within an organization which represent a direct financial value for a business
- Distinguish Quality control, ensuring products are of high and consistent value, which is a major part of materials management
- Understanding of the Hybrid strategy relative emphasis map
- Illustrate how Shrinkage can be reduced through effective inventory
- Formulate, plan and organize formal procedures for making stock decisions
- Explain, discuss and review safety stock levels and order points
- Apply and improve min/max systems and settings
- Using material forecasts
- Cataloguing materials for effective buying process
- Developing Bills of Material for effective parts management



➤ **Day 6**

- Effective Inventory Planning and Control
- Show that Inventory management and supply chain management are the backbone of any business operations
- Appreciate that Inventory management requires constant and careful evaluation of external and internal factors and control through planning and review
- Understand Enhanced customer service concepts where manufacturers agree to manage and hold inventories at their customers end and thereby effect Just In Time deliveries
- Understand the policies of VMI – Vendor Managed Inventory, JIT – Just In Time and ECR – Efficient consumer response
- Setting comprehensive inventory goals and objective
- Effecting a rationalization strategy
- Calculating and evaluating carrying costs and economic order quantity theory
- Establishing a Strategic Focus with Pareto Analysis on Cost
- Improving material identification and coding
- Creating best practices in the physical control of materials
- Measuring record accuracy and improving cycle counting systems

➤ **Day 7**

- Tactical and Operational Approaches in Aviation Transportation Economics
- Appreciate that a key ingredient to successful tactical planning in a logistics network is the efficient consolidation of material flows
- Identify the interplay between inventory cost and different transport tariffs necessitates a notion of time in planning in operation. The goal in tactical optimization is a cyclic pattern of deliveries and inventory consumption.
- Distinguish that tactical logistics network optimization describes the paths each commodity takes through the network from its sources to the point of consumption
- Apply the Role of Transportation in Logistics to the organization
- Identify and recognize Transportation Management Strategic Key Decisions
- Explain, discuss and review the types of mode and inter modal systems
- Show and illustrate the International Commercial Terms in transportation and the liabilities
- Identify and review Hazardous materials transportation

➤ **Day 8**

- Inventory cost reduction techniques
- Establishing strategic inventory cost reduction – step targeting + continuous improvement
- Implementing leading edge strategies – MRP, JIT, Kaizen, and Kanban
- Obsolete & surplus stock management – establishing data driven business cases
- Establishing key cost reduction enablers within the supply chain – pack sizing, identification criteria, process cost reduction
- Effectively managing inventory risk
- Performance management
- Establishing key performance metrics – Operational, Financial, Compliance, and Environmental
- Effective KPI reporting
- Engaging staff colleagues in progress reporting – including cascading, visuals, team motivation
- The effective inventory specialist
- Delegate action planning – participants will create specific departmental and individual action plans to implement the learning outcomes from the course

➤ **Day 9**

- Supply Chain Network Design
- Identify trade-offs in supply chain network design
- Discuss approaches to account for uncertainty and risk when designing networks
- Supply Chain Coordination and Integration
- Discuss causes of information distortion in the supply chain
- Identify suitable countermeasures to coordinate the supply chain

➤ **Day 10**

- **Managing Risk in a Global Aviation Supply Chain**
- **Analyze sources of supply chain risk and explore strategies to help mitigate risk**
- **Incorporate reputation risk into supply chain design**
- **Modern issues in Supply Chain Management**
- **Workshop and case study's**
- **Exam for Candidate + Certificate**

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### Price (USD)

Communicate with the training department  
to know the participation fees

➤ **There are offers and discounts for groups**

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