



Understand & prepare yourself to be part of the aerospace supply chain

🕒 Outlines

Dedicated to:

🕒 SMEs Executive level

This course will be a starting point for the executive of industries, in order to have a common understanding and same fundamentals about the global supply chain, its organization, structure and requirements as well as the aeronautical environment/culture.

Objectives:

- 🕒 To get an insight in the aeronautic culture as well as its associated aeronautical value chain
- 🕒 To provide an understanding of the global aeronautical supply chain organization and management
- 🕒 To provide a clear Identification of all the main actors of the supply chain
- 🕒 To present aeronautical supply chain general structure and explain OEM's requests
- 🕒 To provide a clear view about the global aeronautical supply chain's requirements & standards (NADCAP, ISO 9001, AS 9100...)
- 🕒 SCM: Tools and techniques for implementation
- 🕒 To apply logistics strategies to support companies' objectives
- 🕒 To build high performance business relationship
- 🕒 To boost project management method to ease the SC performance
- 🕒 To provide the best practices in terms of human resources management,
- 🕒 To identify the required managerial skills

Description of the contents (*3 weeks duration*):

Module 1: Aerospace and supply chain environment

- 🕒 History and context of the aeronautic
 - Origins
 - Pioneers
 - Introduction to what's an engine
 - Aeronautic value chain
 - Current evolution, forecasts and the impact in the SCM
 - The challenge of the SCM
 - The European industrial organization



- ◉ A quality centric culture
 - Create a Quality culture
 - Develop a new strategic and operational leadership model of quality
 - Foster a more consistent motivation of human resources to support quality initiatives
 - Establishes and maintains Quality Management System standards
 - Collects and offers best practices, processes and harmonized requirements
 - Promotes and engage the employees within a communication plan
 - Develop and launch new products which will provide consistent customer value
 - Effective management of suppliers and purchasing activities

Duration: 2 days

Module 2: The supply chain from management up to performance measurement

- ◉ Why SCM?
- ◉ Defining supply chains
- ◉ Customer Orientation, service and satisfaction
- ◉ Defining supply chains Supply Chain Management in aeronautic:
 - The Supply Chain's Strategic Importance
 - The 2 main missions of Supply Chain
 - The integration
 - The coordination
 - Supply chain management ensuring sustainable performances and continuous benefits
- ◉ Managing supply chains
 - Value of managing global supply chains
 - Coordination mechanisms in global supply chains
 - Inter-organizational relationships in global supply chains
 - Knowledge of stakeholders and global supply chain sustainability
 - Guidelines for managing global supply chains
 - Supply chain design and planning
 - Supply chain configuration
 - Extent of vertical integration
 - Outsourcing and offshoring
 - Local decisions
 - Capacity planning
 - Bullwhip effect (case study)
- ◉ Processes
 - What a process is, its characteristics and its impact on the overall supply chain?
 - How innovation and supply chain work together to provide products to consumers?
 - Process inhibitors and their impact on supply chain performance



- SC and quality
 - Supply chain standards
 - Quality standards
 - Production and quality indicators
 - Synchronized Production and Delivery
 - Performance Measurement
 - Assessment and analysis practices
 - specific measures providing insight into supply chain operations
- Supply Chain Risk Management
 - Evolving responsibilities of supply chain professionals
 - Examples of security best practices
 - Dimensions of a sustainable supply chain strategy
 - Changing dynamics of supply chain management
 - Tools critical to overall performance of the supply chain
- Introduction to global aeronautical supply chain organization and management:
 - Analysis of transportation, communication, utilities and technology infrastructure
 - Supply chain security, risks and value
 - Legal considerations, international contracts and insurance issues
 - Commercial documents and customs clearance
 - International commerce terms (incoterms)

Duration: 5 days

Module 3: Call for bid & supplier selection process

- From Requirements to First Article Inspection
 - Role of Purchasing
 - Evolution and trends of Purchasing in ASD
 - Steps of the purchasing process
 - Requirements Management
 - Request for Proposal
 - Supplier Selection
 - Negotiation / Contract Management
 - Managing the industrialization
- Managing Requirements
 - Identifying requirements (focus on technical requirements but also commercial)
 - Purchasing strategy
 - Multi-functional team
 - Building the Request for Proposal
 - Identifying the tenders

Introduction of the case study (ex: avionics system) – Application on case study



- ⊗ Analyzing Supplier quote & supplier selection
 - Criteria for analysing supplier proposal : Order qualifying / Order winning criteria
 - Risk Analysis
 - RFP Analysis
 - Supplier selection
 - Preparation for Negotiation

Application on case study

- ⊗ Managing the contract until FAI
 - Managing the development phase
 - Managing the industrialization phase
 - Managing supplier relationship in multicultural environment

Application on case study

Duration: 5 days

Module 4: Effective methods for continuous performance of SC

- ⊗ Lean supply chain management
 - Origins of the lean manufacturing
 - Lean supply principles
 - Focusing on cost to serve
 - Drivers for lean supply chain
 - Lean process tools
- ⊗ AGILE supply chain
 - Agile concept
 - Agile supply chain concept
 - Agile supply chain structure
 - Competing on responsiveness
- ⊗ Effective project management of SC programs
 - Leadership & teams motivation
 - Requirements engineering
 - Priorities sequencing
 - Integrated project
 - Risk & opportunity management
 - Lean, control & monitoring
 - Intercultural management

Duration: 3 days