# Materials Management & Inventory Control: Optimize Supply Chain

2027 □□□□□ 30 – 26
Paris (France)



# Materials Management & Inventory Control: Optimize Supply Chain

Ref: 2023005_127307 - 26 Location: Paris (France) Fees: 5200 GBP

## Why This Course

In today's competitive and fast-changing business environment, effective materials management and inventory control are vital to operational efficiency, cost reduction, and customer satisfaction. Organizations must balance stock availability with working capital optimization — ensuring the right materials are available at the right time, in the right quantity, and at the right cost.

The Materials Management and Inventory Control Excellence program is an intensive 1-week course that provides a complete understanding of modern inventory management practices. Participants will gain the knowledge, analytical skills, and practical tools to manage materials effectively, improve inventory accuracy, and strengthen overall supply chain performance.

## What You'll Learn and Practice

By joining this program, you will:

- Understand the core principles and objectives of materials management and inventory control.
- Develop strategies to optimize inventory levels and minimize carrying costs.
- Apply forecasting and demand planning techniques for accurate replenishment.
- Implement efficient warehouse and stock control systems.
- Measure and enhance performance using key supply chain metrics.
- Align materials management with broader business and supply chain strategy.

## The Program Flow

### Day 1: Introduction to Materials Management

- The role of materials management in supply chain success.
- Key components and interdependencies in the supply chain.
- Understanding different inventory types and their functions.
- Analyzing cost factors and their impact on profitability.
- Workshop: Mapping the materials management process in your organization.



## Day 2: Inventory Control Techniques

- ABC analysis and strategic inventory classification.
- Applying the Economic Order Quantity EOQ model effectively.
- Safety stock and reorder point calculations for optimal balance.
- Just-In-Time JIT, lean inventory, and continuous flow systems.
- Exercise: Optimizing stock levels through scenario-based calculations.

## Day 3: Demand Forecasting and Planning

- Key forecasting methods and their practical applications.
- Integrating demand planning with procurement and production.
- Managing variability and uncertainty in demand.
- Collaborative Planning, Forecasting, and Replenishment CPFR.
- Case Study: Improving forecast accuracy in a manufacturing environment.

## Day 4: Warehouse Management and Stock Control

- Designing efficient warehouse layouts and material flow systems.
- Enhancing accuracy through cycle counting and stock auditing.
- Leveraging barcode, RFID, and automation technologies.
- Implementing and optimizing Warehouse Management Systems WMS.
- Hands-on Session: Designing a warehouse optimization plan.

## Day 5: Performance Measurement and Optimization

- Establishing Key Performance Indicators KPIs for inventory control.
- Calculating and interpreting inventory turnover, service levels, and days of supply.
- Identifying and applying cost reduction opportunities.
- Embedding continuous improvement in materials management.
- Capstone: Building a performance dashboard for materials and inventory management.

# Individual Impact

- Strengthen your analytical and decision-making skills in inventory control.
- Gain confidence in optimizing stock levels and managing costs.
- Learn to integrate forecasting, warehouse, and materials management practices.
- Develop practical tools and dashboards for ongoing performance tracking.

# Organizational Impact

- Improve operational efficiency and reduce inventory-related costs.
- Enhance supply chain visibility, accuracy, and responsiveness.
- Increase working capital efficiency through optimized stock management.
- Build a culture of continuous improvement and performance measurement.



## Training Methodology

This program combines conceptual learning with applied practice to ensure real-world results. Learning methods include:

- Case studies from manufacturing, retail, and logistics sectors.
- Hands-on exercises in forecasting, EOQ, and inventory optimization.
- Group workshops on warehouse design and process improvement.
- Interactive simulations and KPI analysis sessions.
- Tools, templates, and models for immediate implementation at work.

## Beyond the Course

Upon completion, participants will be equipped to lead materials management and inventory initiatives that balance efficiency, cost, and service excellence. They will return ready to:

- Develop customized inventory optimization strategies.
- Implement accurate forecasting and demand planning processes.
- Improve warehouse operations and stock control systems.
- Measure and continuously enhance supply chain performance.

