



Course details

Manufacturing and Production Planning and Control (MPPC)

Procurement and Supply Chain Management

Upcoming seminar

€4,200.-

Venue
Barcelona - Spain

Date
18 - 22 May 2026

Seminar content

What you will learn

Why Attend

Efficient manufacturing and production systems are essential for delivering products on time, at the right cost, and with consistent quality. Poor planning and weak production control can lead to delays, excess inventory, capacity bottlenecks, and increased operational costs. This course provides participants with practical tools and techniques to plan, schedule, and control production activities effectively. It focuses on optimizing resources, improving workflow efficiency, and aligning production output with customer demand and business objectives.

Course Methodology

This course combines manufacturing theory with practical, real-world production planning exercises. Participants will engage in production scheduling simulations, capacity planning workshops, and case studies from manufacturing industries. Hands-on activities will focus on material planning, workflow optimization, and production control techniques. Interactive discussions will highlight best practices in lean manufacturing, demand planning, and operational efficiency.

Course Objectives

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

- Understand core principles of manufacturing and production planning
- Develop effective production plans and schedules
- Optimize capacity utilization and resource allocation
- Implement production control systems and monitoring tools
- Align production planning with demand forecasting
- Reduce production bottlenecks and inefficiencies
- Improve coordination between production, procurement, and logistics
- Apply continuous improvement principles in manufacturing operations

Target Audience

- Production and Manufacturing Managers
- Operations and Plant Managers
- Industrial and Process Engineers
- Supply Chain and Planning Professionals
- Production Supervisors and Team Leaders
- Professionals involved in manufacturing operations

Target Competencies

- Production planning and scheduling
- Capacity planning and optimization
- Manufacturing process control
- Inventory and material requirement planning (MRP)
- Operational efficiency and lean thinking
- Coordination across supply chain functions
- Performance monitoring and KPI management

Seminar details

Detailed outline

Day 1: Fundamentals of Manufacturing and Production Systems

- Overview of manufacturing systems and operations

- Role of production planning and control (PPC)
- Types of production systems (job, batch, mass production)
- Production lifecycle and workflows
- Introduction to lean manufacturing principles

Day 2: Production Planning Techniques

- Demand forecasting and production planning integration
- Aggregate planning and master production schedules (MPS)
- Material Requirements Planning (MRP) basics
- Capacity planning and resource allocation
- Balancing demand and production capacity

Day 3: Production Scheduling and Control

- Detailed production scheduling techniques
- Job sequencing and priority rules
- Shop floor control systems
- Bottleneck identification and management
- Monitoring production performance

Day 4: Inventory, Materials, and Workflow Optimization

- Inventory control in manufacturing environments
- Materials flow and logistics coordination
- Reducing waste and improving efficiency
- Just-in-Time (JIT) production systems
- Quality control integration in production planning

Day 5: Performance Improvement and Industry Best Practices

- Key performance indicators (KPIs) in manufacturing
- Continuous improvement (Kaizen, Lean, Six Sigma basics)
- Digital manufacturing and Industry 4.0 overview
- Case studies from global manufacturing companies
- Final workshop: production planning simulation exercise

Dates and locations

Available seminar dates

17 dates

Date	City	Duration	Price
18 - 22 May 2026	Barcelona - Spain	5 Days	€4,200.-
1 - 5 June 2026	Munich - Germany	5 Days	€4,250.-
8 - 12 June 2026	Kuala Lumpur - Malaysia	5 Days	€2,250.-
15 - 19 June 2026	Amsterdam - Netherlands	5 Days	€4,200.-
6 - 10 July 2026	London - U.K	5 Days	€4,250.-
20 - 24 July 2026	Paris - France	5 Days	€4,400.-
3 - 7 August 2026	Istanbul - Turkey	5 Days	€4,200.-
10 - 14 August 2026	Amsterdam - Netherlands	5 Days	€4,250.-
7 - 11 September 2026	London - U.K	5 Days	€3,850.-
14 - 18 September 2026	Barcelona - Spain	5 Days	€2,550.-
5 - 9 October 2026	Kuala Lumpur - Malaysia	5 Days	€2,850.-
12 - 16 October 2026	Istanbul - Turkey	5 Days	€3,850.-
9 - 13 November 2026	Barcelona - Spain	5 Days	€4,250.-
16 - 20 November 2026	Vienna - Austria	5 Days	€4,200.-
7 - 11 December 2026	Amsterdam - Netherlands	5 Days	€2,850.-
14 - 18 December 2026	Istanbul - Turkey	5 Days	€3,850.-
21 - 25 December 2026	Paris - France	5 Days	€4,400.-