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PROCUREMENT AND SUPPLY CHAIN MANAGEMENT | PSCM-010

Manufacturing and Production Planning and Control (MPPC)

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Course content

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



Course content

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

Course 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



Course content

Course outline

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



Course content

Course outline

- Case studies from global manufacturing companies
- Final workshop: production planning simulation exercise



Seminar dates

Available seminar dates

Live dates and pricing for Manufacturing and Production Planning and Control (MPPC) generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	Barcelona - Spain	Classroom	**€3,400.-**
16 - 20 November 2026	Vienna - Austria	Classroom	**€3,360.-**
7 - 11 December 2026	Amsterdam - Netherlands	Classroom	**€2,280.-**
14 - 18 December 2026	Istanbul - Turkey	Classroom	**€3,080.-**
21 - 25 December 2026	Paris - France	Classroom	**€3,520.-**
18 - 22 January 2027	Barcelona - Spain	Classroom	**€3,080.-**
15 - 19 February 2027	Munich - Germany	Classroom	**€3,400.-**
15 - 19 March 2027	Kuala lumpur - Malaysia	Classroom	**€1,800.-**
19 - 23 April 2027	Amsterdam - Netherlands	Classroom	**€3,400.-**
17 - 21 May 2027	Geneva - Switzerland	Classroom	**€4,200.-**
21 - 25 June 2027	Paris - France	Classroom	**€3,600.-**
19 - 23 July 2027	Istanbul - Turkey	Classroom	**€2,280.-**
16 - 20 August 2027	Amsterdam - Netherlands	Classroom	**€3,400.-**
20 - 24 September 2027	London - U.K	Classroom	**€3,360.-**
18 - 22 October 2027	Barcelona - Spain	Classroom	**€3,080.-**
15 - 19 November 2027	Kuala lumpur - Malaysia	Classroom	**€1,800.-**
20 - 24 December 2027	Istanbul - Turkey	Classroom	**€2,280.-**