

aractech

Global Learning for Operational Leaders



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

- 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

Target Audience

- Production and Manufacturing Managers
- Operations and Plant Managers
- Industrial and Process Engineers
- Supply Chain and Planning Professionals

Course outline

Detailed course outline

Day-by-day outline for Manufacturing and Production Planning and Control (MPPC).

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

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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

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
18 - 22 May 2026	Barcelona	Classroom	€2,940
1 - 5 June 2026	Munich	Classroom	€2,975
8 - 12 June 2026	Kuala lumpur	Classroom	€1,575
15 - 19 June 2026	Amsterdam	Classroom	€2,940
6 - 10 July 2026	London	Classroom	€2,975
20 - 24 July 2026	Paris	Classroom	€3,080
3 - 7 August 2026	Istanbul	Classroom	€2,940

Live online option

Online delivery is available at €1,250.