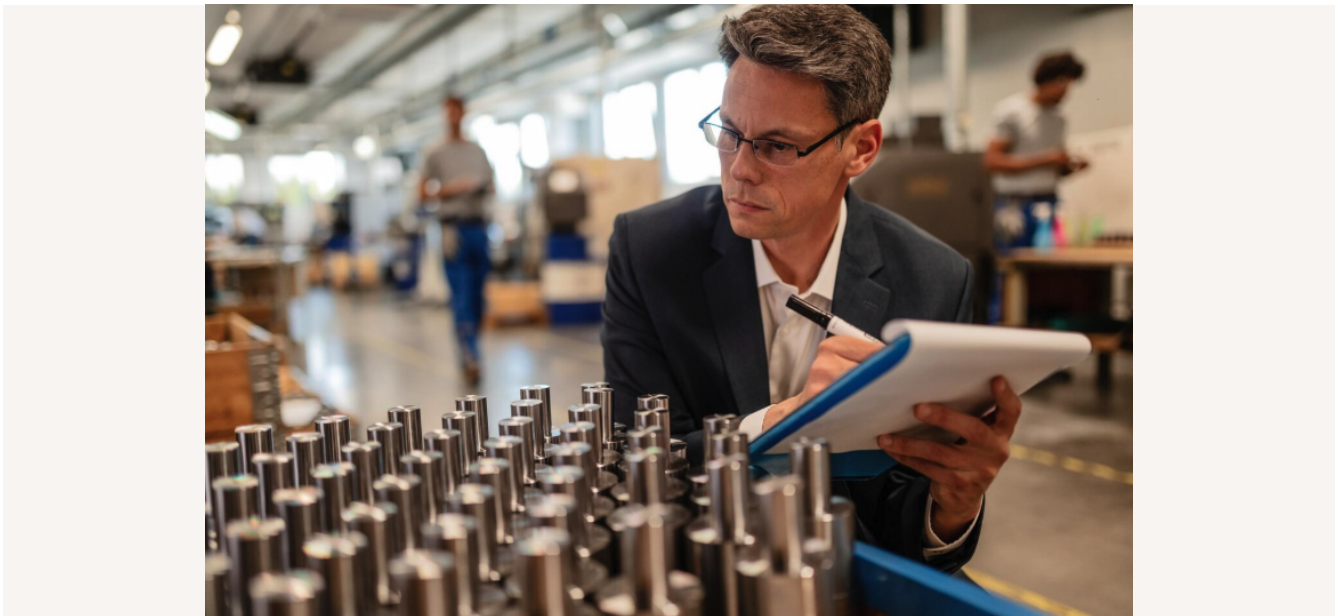


Manufacturing and Production Planning and Control (MPPC)

Course code: PSCM-010



SPARK TRAINING

Professional training courses for leaders, specialists, and organizations seeking practical capability development.

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— Workshop Overview

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.

Why Attend

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

Who Should Attend

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

— Learning 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
- Improve coordination between production, procurement, and logistics
- Apply continuous improvement principles in manufacturing operations

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

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

— Upcoming Classroom Dates

DATE	LOCATION	FEE
5 - 9 October 2026	Kuala Lumpur - Malaysia	€1,425
12 - 16 October 2026	Istanbul - Türkiye	€1,925
9 - 13 November 2026	Barcelona - Spain	€2,125
16 - 20 November 2026	Vienna - Austria	€2,100
7 - 11 December 2026	Amsterdam - Netherlands	€1,425
14 - 18 December 2026	Istanbul - Türkiye	€1,925
21 - 25 December 2026	Paris - France	€2,200
18 - 22 January 2027	Barcelona - Spain	€1,925

— Certificate and Registration

Participants who attend and complete the full programme receive a SPARK Training Certificate of Completion. For registration, in-house delivery, or availability questions, contact info@sparktraining.eu or +31 85 115 0004.