Manufacturing and Production Planning & Control (MPPC)

27 September – 1 October 2027
Orlando, Florida (USA)



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Ref: 323079_224439 **Date:** 27 September – 1 October 2027 **Location:** Orlando, Florida (USA) **Fees:** 5900 GBP

Course Description

This intensive 1-week course covers the fundamental concepts and advanced techniques of Manufacturing and Production Planning & Control MPPC. Participants will learn to optimize production processes, manage inventory effectively, and implement lean manufacturing principles. The course combines theoretical knowledge with practical applications to enhance operational efficiency and competitiveness.

Learning Objectives

- Develop comprehensive production plans and schedules
- Implement effective inventory management strategies
- Apply forecasting techniques for demand planning
- Utilize lean manufacturing and Just-in-Time principles
- Optimize capacity planning and resource allocation
- Integrate MRP and ERP systems in production planning

Course Modules

Day 1: Fundamentals of MPPC

- Introduction to MPPC concepts and principles
- Production strategies and competitive priorities
- Forecasting techniques and demand planning
- Sales and Operations Planning S&OP

Day 2: Inventory Management and Control

- Inventory classification and ABC analysis
- Economic Order Quantity EOQ models
- Safety stock and reorder point calculations
- Just-in-Time JIT and Kanban systems

Day 3: Production Planning and Scheduling

- Master Production Scheduling MPS
- Material Requirements Planning MRP
- Capacity Requirements Planning CRP
- Production Activity Control PAC



Day 4: Lean Manufacturing and Continuous Improvement

- Lean manufacturing principles and tools
- Value Stream Mapping VSM
- Total Productive Maintenance TPM
- Six Sigma methodology in production

Day 5: Advanced Topics and Integration

- Supply Chain Management integration
- ERP systems in production planning
- Industry 4.0 and smart manufacturing
- Key Performance Indicators KPIs for MPPC

Practical Wins for Participants

- Develop a comprehensive production plan for your organization
- Create an inventory management strategy to reduce costs
- Implement a lean manufacturing initiative in your workplace
- Design a set of KPIs to measure and improve production efficiency

