

# Strategic Maintenance Planning: Optimizing Asset Performance

27 September – 1 October 2027  
Barcelona (Spain)

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## Strategic Maintenance Planning: Optimizing Asset Performance

**Ref:** 321600\_165012 **Date:** 27 September – 1 October 2027 **Location:** Barcelona (Spain) **Fees:** 5900 GBP

### Why This Course

In asset-intensive organizations, maintenance is no longer just a support function—it is a strategic driver of performance, reliability, and cost control. Poorly managed maintenance leads to downtime, safety risks, and unnecessary expenses. On the other hand, a well-designed maintenance strategy protects assets, extends lifecycle value, and strengthens overall operational efficiency.

This intensive five-day program is designed to help maintenance professionals move from reactive practices to a structured, strategic approach. Participants will learn how to align maintenance planning with business objectives, apply reliability-centered methodologies, and use performance data to drive continuous improvement. The course combines practical tools with modern technologies to ensure measurable and sustainable results.

### What You'll Learn and Practice

By attending this program, you will be able to:

- Develop a strategic maintenance plan aligned with organizational goals.
- Apply reliability-centered maintenance RCM principles to improve asset performance.
- Establish and monitor key performance indicators KPIs for maintenance effectiveness.
- Integrate modern technologies such as CMMS, IoT, and predictive tools into maintenance systems.
- Improve decision-making related to resource allocation, prioritization, and cost optimization.

### The Program Flow

#### Day 1: Foundations of Strategic Maintenance

- The evolution from reactive to strategic maintenance management
- Aligning maintenance objectives with business strategy
- Asset lifecycle management principles
- Introduction to reliability-centered maintenance RCM

#### Day 2: Maintenance Planning and Scheduling

- Designing effective maintenance schedules
- Work order systems and prioritization techniques
- Resource planning and workforce optimization
- Preventive and predictive maintenance approaches

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A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver, set against a background of concentric circles.

### **Day 3: Performance Measurement and Analysis**

- Defining and tracking maintenance KPIs
- Data collection and performance analysis methods
- Benchmarking and continuous improvement practices
- Cost-benefit analysis of maintenance initiatives

### **Day 4: Technology and Innovation in Maintenance**

- Implementing Computerized Maintenance Management Systems CMMS
- Condition monitoring and predictive maintenance technologies
- Leveraging IoT applications in maintenance operations
- Using data analytics for maintenance optimization

### **Day 5: Implementation and Change Management**

- Building a structured strategic maintenance implementation plan
- Managing change during maintenance transformation initiatives
- Developing a culture focused on reliability and improvement
- Reviewing real-world case studies and industry best practices

## **Individual Impact**

Participants will leave the program with:

- A customized strategic maintenance roadmap tailored to their organization.
- Clear KPIs to monitor and improve maintenance performance.
- A structured reliability-centered maintenance program for critical assets.
- A practical technology adoption plan to modernize maintenance operations.

## **Organizational Impact**

Organizations will benefit from:

- Reduced downtime and improved asset reliability.
- Better alignment between maintenance activities and business priorities.
- More efficient resource utilization and cost control.
- A proactive maintenance culture focused on long-term performance.

A graphic of a chessboard with several pawns. In the foreground, a large gold king piece stands prominently. Behind it, several smaller silver and gold pawns are positioned on the board. The background features concentric circles emanating from behind the king piece.

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## Training Methodology

- Practical workshops on maintenance planning and KPI development
- Case studies from asset-intensive industries
- Group exercises on reliability analysis and cost evaluation
- Technology demonstrations and implementation discussions
- Action planning sessions focused on measurable improvements

## Beyond the Course

By the end of the five days, participants will be prepared to:

- Transition maintenance functions from reactive to strategic.
- Optimize asset performance through structured reliability practices.
- Lead maintenance improvement initiatives with confidence and clarity.
- Deliver measurable operational and financial impact through effective maintenance management.

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