

Strategic Maintenance Planning: Optimizing Asset Performance

11 – 15 October 2027
Malaga (Spain)

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Strategic Maintenance Planning: Optimizing Asset Performance

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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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