

Strategic Maintenance Planning: Optimizing Asset Performance

Oil & Gas Engineering
Toronto (Canada)
06 - 10 Oct 2025

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A photograph of chess pieces on a checkered board. In the foreground, a large gold king piece stands prominently. To its left, a silver pawn is visible. Further back, another silver pawn is positioned. The background features concentric circles, suggesting a strategic or radar-like theme.

Strategic Maintenance Planning: Optimizing Asset Performance

Ref: 321600_141503 **Date:** 06 - 10 Oct 2025 **Location:** Toronto (Canada) **Fees:** 4700 **Euro**

Course Description

This intensive 5-day course equips maintenance professionals with the knowledge and skills to develop and implement effective strategic maintenance plans. Participants will learn to align maintenance strategies with organizational goals, optimize asset performance, and reduce operational costs. The course covers key concepts in maintenance management, reliability-centered maintenance, and performance measurement.

Learning Objectives

- Develop a comprehensive strategic maintenance plan aligned with business objectives
- Implement reliability-centered maintenance techniques to optimize asset performance
- Apply key performance indicators to measure and improve maintenance effectiveness
- Integrate modern maintenance technologies and methodologies into existing systems
- Enhance decision-making skills for maintenance resource allocation and prioritization

Course Modules

Day 1: Foundations of Strategic Maintenance

- Evolution of maintenance management
- Aligning maintenance strategy with business goals
- Asset lifecycle management principles
- Introduction to reliability-centered maintenance

Day 2: Maintenance Planning and Scheduling

- Developing effective maintenance schedules
- Work order management and prioritization
- Resource allocation and optimization
- Preventive and predictive maintenance strategies

Day 3: Performance Measurement and Analysis

- Key performance indicators for maintenance
- Data collection and analysis techniques
- Benchmarking and continuous improvement
- Cost-benefit analysis of maintenance strategies

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Day 4: Technology and Innovation in Maintenance

- Computerized maintenance management systems CMMS
- Condition monitoring and predictive technologies
- Internet of Things IoT in maintenance
- Big data and analytics for maintenance optimization

Day 5: Implementation and Change Management

- Developing a strategic maintenance implementation plan
- Change management strategies for maintenance transformation
- Building a culture of reliability and continuous improvement
- Case studies and best practices in strategic maintenance

Practical Wins for Participants

- Create a customized strategic maintenance plan for their organization
- Develop a set of relevant KPIs to measure maintenance performance
- Design a reliability-centered maintenance program for critical assets
- Formulate a technology adoption roadmap for maintenance optimization

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