

STRATEGIC MAINTENANCE DEVELOPMENT (SMD) SYSTEM

“Building World-Class Maintenance Strategies for Sustainable Asset Performance”

Schedule

Date	Venue	Fees (Face-to-Face)
02 - 06 Mar 2026	Dubai, UAE	USD 3,495 per delegate
19 - 23 Jul 2026	Riyadh, KSA	USD 3,495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Strategic Maintenance Development (SMD) is a structured and systematic approach designed to transform maintenance functions from reactive cost centers into proactive value-driven contributors to organizational success. In today’s competitive and asset-intensive industries, effective maintenance strategy is essential for achieving reliability, safety, and cost optimization.

This intensive 5-day training equips participants with practical tools, frameworks, and methodologies to design, implement, and sustain a strategic maintenance system aligned with business objectives. The course integrates best practices in asset management, reliability engineering, performance measurement, and continuous improvement to deliver measurable maintenance excellence.

Objectives

By the end of this course, participants will be able to:

- Understand the principles and structure of strategic maintenance development.
- Align maintenance strategies with organizational and asset management goals
- Develop maintenance policies, plans, and performance indicators
- Apply reliability-centered and risk-based maintenance approaches
- Optimize maintenance resources, costs, and work management processes
- Implement continuous improvement within maintenance systems
- Measure and sustain maintenance performance excellence

Why Attend

- Learn how to build and sustain a strategic maintenance system
- Shift from reactive to proactive and predictive maintenance practices
- Improve asset reliability and operational availability
- Optimize maintenance costs and resource utilization
- Strengthen maintenance planning, scheduling, and control
- Enhance leadership and decision-making in maintenance management

Target Audience

This program is designed for:

- Maintenance and reliability managers
- Asset and engineering managers
- Maintenance planners and supervisors
- Reliability and asset management engineers
- Operations managers involved in asset-intensive environments
- Technical leaders responsible for maintenance strategy

Individual Benefits

Key competencies that will be developed include:

- Strategic thinking in maintenance management
- Ability to design and deploy maintenance strategies
- Enhanced skills in reliability and performance improvement
- Improved decision-making using maintenance KPIs
- Stronger leadership and change management capabilities

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved asset reliability and equipment availability
- Reduced maintenance and lifecycle costs
- Enhanced maintenance planning, scheduling, and execution
- Better alignment between maintenance, operations, and business goals
- Sustainable maintenance performance improvement culture

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Strategic maintenance concepts, asset management frameworks, and SMD models
- Case Studies – Real-world examples of maintenance transformation and performance improvement
- Workshops – Development of maintenance strategies, KPIs, and improvement plans
- Peer Exchange – Group discussions on challenges, best practices, and lessons learned
- Tools – Maintenance assessment models, KPI dashboards, and implementation templates

Course Outline

Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules Coffee Breaks: 09:30 & 11:15 Lunch Buffet: 01:00 – 02:00

Day 1: Maintenance Strategy & Business Alignment

- Maintenance as a value-driven business function
- Overview of Strategic Maintenance Development (SMD)
- Aligning maintenance strategy with organizational objectives

Day 2: Asset Management & Reliability Foundations

- Asset lifecycle management concepts
- Reliability-centered maintenance (RCM) principles
- Risk-based maintenance decision-making

Day 3: Maintenance Planning, Scheduling & Work Control

- Maintenance planning and scheduling best practices
- Work management systems and backlog control
- Resource optimization and workforce planning

Day 4: Performance Measurement & Continuous Improvement

- Maintenance KPIs and performance metrics
- Benchmarking and performance assessment
- Continuous improvement models for maintenance excellence

Day 5: Implementation, Leadership & Sustainability

- Implementing the SMD system
- Change management and leadership in maintenance
- Developing a sustainable maintenance improvement roadmap

Certification

Participants will receive a Certificate of Completion in Strategic Maintenance Development (SMD) System, validating their competence in designing, implementing, and sustaining strategic maintenance frameworks that enhance asset reliability, operational performance, and cost effectiveness.

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