



Consulting and Training | Reach New Heights

Course Name

Excellence in Maintenance & Reliability Management

Sector Name

Maintenance & Reliability Management

Document Type

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Excellence in Maintenance & Reliability Management

Course Introduction

Achieving excellence in maintenance and reliability is the aim of every organization that depends on its physical assets to achieve business objectives. Lower profit margins have made reducing maintenance costs imperative to the survival of many organizations. This Excellence in Maintenance and Reliability Management training course starts with the key aspects that lay the foundations and cornerstones of an effective maintenance function.

It introduces reliability strategies such as FMECA, TPM, RCM, and RCFA to highlight their costs and benefits. The Excellence in Maintenance and Reliability Management training course will then demonstrate how these strategies are used to derive the different maintenance tactics of predictive, preventive, detective, and repair-after-failure maintenance tactics.

Participants will develop the following competencies:

- ✓ Asset functional analysis
- ✓ Failure forecasting risk assessment
- ✓ Maintenance strategy and tactics development
- ✓ Root cause of failure analysis
- ✓ Reliability improvement

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Excellence in Maintenance & Reliability Management

Target Audience

- ✓ Facilities Specialist / Coordinator
- ✓ Facilities Engineer
- ✓ Health and Safety Engineer
- ✓ Maintenance Helper / Assistant
- ✓ Maintenance Superintendent
- ✓ Maintenance Supervisor
- ✓ Mechanical Reliability Engineer
- ✓ Operations and Maintenance Specialist
- ✓ Reliability Engineer

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Learning Objectives

- ✓ Compare their current maintenance strategies to industry best practice
- ✓ Understand the benefits and costs of alternative maintenance strategies
- ✓ Define maintenance strategies for a specific system using a decision support process and tools
- ✓ Analyze failures and determine the root causes using the tools and templates provided
- ✓ Implement reliability improvement methodologies correctly
- ✓ Prepare maintenance schedules and procedures for implementation

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Course Outline

✓ **01 DAY ONE**

Module (01) Introduction to Maintenance and Reliability Management

- ✓ The cost and risk of equipment failure
- ✓ Pillars of excellence in maintenance
- ✓ Best practice reliability and maintenance processes
- ✓ Overview of FMECA, TPM, RCM, RBI, and RCFA

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Course Outline

✓ **02 DAY TWO**

Module (02) Establish Framework for Reliability

- ✓ Build a competent team to drive reliability in each area
- ✓ Asset identification, classification, and criticality grading
- ✓ Define asset performance and efficiency standards
- ✓ Anticipate the physical causes of failure and degradation
- ✓ Anticipate the human causes
- ✓ Analyze the effects and quantify the risks
- ✓ Practical application of failure and risk analysis

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✓ **03 DAY THREE**

Module (03) Condition-Based Maintenance

- ✓ Maintenance types
- ✓ Condition monitoring techniques
- ✓ Vibration measurement and analysis
- ✓ Oil analysis
- ✓ Thermography technique
- ✓ Failure measuring in rotating equipment

Module (04) Failure Management Strategy Development

- ✓ Select proactive maintenance tactics on the basis of costs and risks
- ✓ Preventive maintenance tasks and intervals
- ✓ Predictive maintenance tasks and intervals
- ✓ Failure detection and function testing tasks and intervals
- ✓ Human error reduction through equipment, procedural, and skill upgrades
- ✓ Repair-after-failure strategies
- ✓ Practical application and open discussion sessions

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Course Outline

✓ **04 DAY FOUR**

Module (05) Failure Management Strategy Implementation

- ✓ Aggressive defect reporting to feed the backlog
- ✓ Plan for quality, time, and safety
- ✓ Budget for spare parts and make stocking decisions
- ✓ Schedule maintenance to minimize operational downtime
- ✓ Use appropriate metrics to drive defect elimination
- ✓ Practical application and open discussion sessions

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✓ **05 DAY FIVE**

Module (06) Failure Analysis in Rotating Equipment

- ✓ Common Pump Problems
- ✓ Cavitation
- ✓ Mechanical Seal Failure Causes
- ✓ Wear In Mechanical Parts
- ✓ Compressors Common Problems
- ✓ Compressor Surge
- ✓ Compressor Vibration
- ✓ Mechanical Parts Wear
- ✓ Proper Shaft Alignment Application

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 22, 2026	June 26, 2026	5 days	4250.00 \$	UAE , Dubai
Oct. 5, 2026	Oct. 9, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 31, 2027	Feb. 4, 2027	5 days	4250.00 \$	KSA , Al Khobar
Nov. 16, 2026	Nov. 20, 2026	5 days	4950.00 \$	Azerbaijan , Baku

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