

# MASTERING PLANT OPERATIONAL RELIABILITY & MAINTENANCE GAP ANALYSIS & BENCHMARKING

*“Optimize Plant Performance through Reliability, Maintenance, and Benchmarking Excellence”*

## Schedule

Date	Venue	Fees (Face-to-Face)
14 - 18 Jun 2026	Manama, Bahrain	USD 3495 per delegate

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

## Introduction

In today’s competitive industrial environment, maximizing plant reliability and operational efficiency is critical to maintaining productivity and minimizing downtime. This course equips participants with advanced knowledge and tools to analyze maintenance practices, identify performance gaps, and implement benchmarking strategies to enhance plant operations. Attendees will learn how to systematically evaluate maintenance programs, optimize processes, and align maintenance strategies with organizational objectives.

Through interactive sessions, real-world case studies, and hands-on exercises, participants will gain practical experience in maintenance gap analysis, reliability improvement, and benchmarking techniques. The course emphasizes actionable strategies to improve asset performance, reduce costs, and drive operational excellence across industrial facilities.

## Objectives

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

- Understand principles of plant operational reliability and maintenance excellence.
- Conduct GAP analysis to identify performance and maintenance deficiencies.
- Implement benchmarking strategies for reliability and operational performance.
- Develop actionable plans to optimize maintenance processes and asset management.
- Apply best practices in predictive, preventive, and reliability-centered maintenance.
- Align maintenance strategies with business objectives for sustainable performance improvement.

## Why Attend

Participants should attend this course to:

- Gain practical tools for maintenance GAP analysis and reliability improvement.
- Enhance operational efficiency and reduce unplanned downtime.
- Learn benchmarking techniques to measure and improve maintenance performance.
- Optimize maintenance strategies to maximize plant productivity.
- Apply internationally recognized best practices in maintenance and reliability management.

## Target Audience

This program is designed for:

- Plant managers and maintenance managers
- Reliability engineers and operations managers
- Maintenance planners and supervisors
- Asset management and industrial engineering professionals
- Professionals responsible for maintenance optimization and performance improvement

## Individual Benefits

Key competencies that will be developed include:

- Conducting comprehensive maintenance GAP analysis
- Benchmarking operational performance against industry standards
- Implementing reliability-centered maintenance practices
- Optimizing preventive and predictive maintenance strategies
- Developing actionable plans for continuous improvement in plant operations

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved plant reliability and operational efficiency
- Reduced unplanned downtime and maintenance costs
- Enhanced maintenance planning and resource allocation
- Benchmarking-driven performance improvement initiatives
- Stronger alignment of maintenance strategy with organizational objectives

## Instructional Methodology

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

- Strategy Briefings – Overview of plant reliability, maintenance strategies, and benchmarking frameworks
- Case Studies – Real-world examples of GAP analysis and maintenance performance improvement
- Workshops – Hands-on exercises in reliability analysis, benchmarking, and maintenance optimization
- Peer Exchange – Group discussions on maintenance challenges, lessons learned, and best practices
- Tools – Templates for GAP analysis, benchmarking, and maintenance planning

## MAWA EVENTS

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## 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: Introduction to Plant Reliability and Maintenance Excellence

##### Module 1: Overview of Operational Reliability (07:30 – 09:30)

- Principles of reliability and maintenance excellence
- Key metrics and performance indicators
- Aligning reliability with organizational goals

##### Module 2: Maintenance GAP Analysis (09:45 – 11:15)

- Identifying gaps in current maintenance practices
- Assessment of asset performance and maintenance processes
- Prioritizing improvement initiatives

#### Day 2: Benchmarking and Performance Measurement

##### Module 3: Benchmarking Techniques (07:30 – 09:30)

- Methods for benchmarking plant performance
- Comparing internal practices with industry standards
- Identifying opportunities for operational improvement

##### Module 4: Reliability-Centered Maintenance (09:45 – 11:15)

- Principles and methodology of RCM
- Implementation in industrial plants
- Enhancing asset reliability and performance

#### Day 3: Preventive and Predictive Maintenance Strategies

##### Module 5: Preventive Maintenance Optimization (07:30 – 09:30)

- Designing preventive maintenance programs
- Scheduling, monitoring, and evaluation techniques
- Balancing cost and reliability

##### Module 6: Predictive Maintenance and Condition Monitoring (09:45 – 11:15)

- Techniques for predictive maintenance
- Using condition monitoring tools and data analytics
- Reducing unplanned downtime through predictive strategies

#### Day 4: Practical Applications and Process Improvement

##### Module 7: Hands-on GAP Analysis and Benchmarking Workshop (07:30 – 09:30)

- Conducting practical GAP analysis exercises
- Benchmarking plant performance metrics
- Developing improvement action plans

##### Module 8: Continuous Improvement in Maintenance Practices (09:45 – 11:15)

- Implementing lean maintenance and reliability improvement techniques
- Monitoring progress and adjusting strategies
- Sharing best practices across plants

#### Day 5: Integration and Strategic Implementation

##### Module 9: Maintenance Strategy Alignment (07:30 – 09:30)

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Aligning maintenance processes with business objectives

- Resource optimization and cost control strategies
- Strategic planning for operational reliability

Module 10: Action Planning and Wrap-Up (09:45 - 11:15)

- Developing actionable implementation plans
- Lessons learned from case studies
- Continuous improvement roadmap for plant operations

### Certification

Participants will receive a Certificate of Completion in Mastering Plant Operational Reliability & Maintenance GAP Analysis & Benchmarking, validating their expertise in improving plant reliability, optimizing maintenance strategies, and implementing benchmarking-driven performance improvements.

### Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation's unique goals.

### In-House / Customized Training

Interested in running this course for your team?  
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