



Consulting and Training | Reach New Heights

Course Name

Maintenance & Reliability Professional (CMRP)

Sector Name

Maintenance & Reliability Management

Document Type

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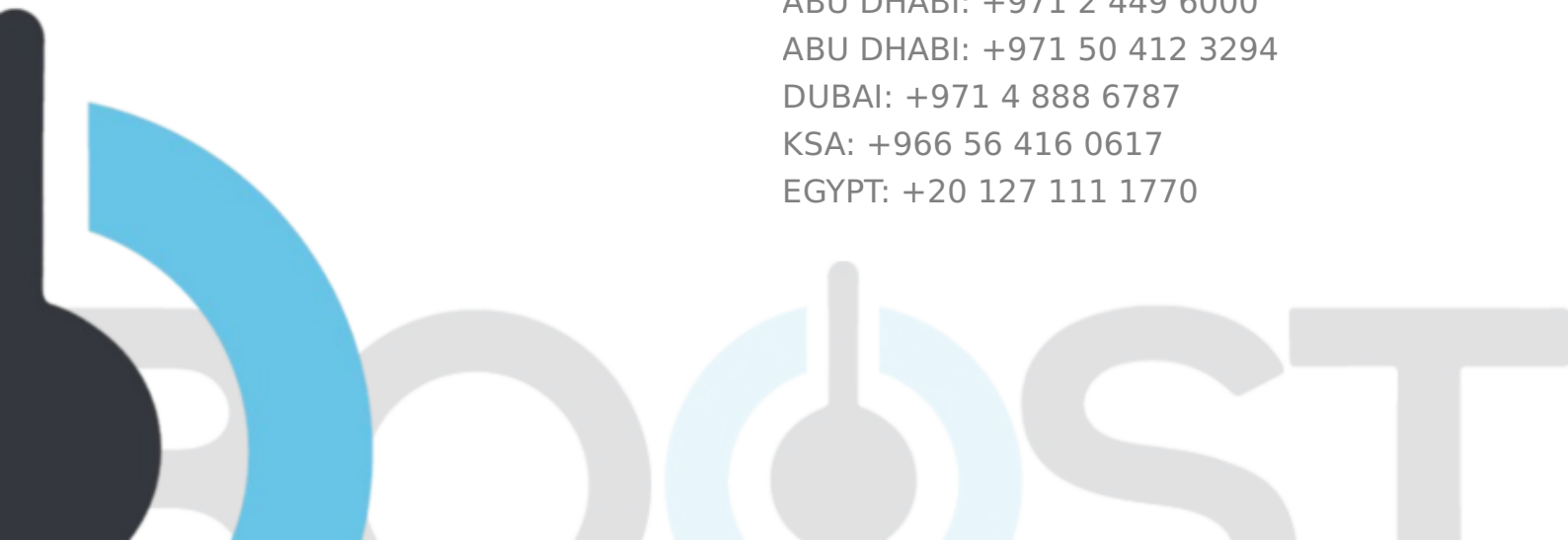
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Maintenance & Reliability Professional (CMRP)

Course Introduction

In modern industrial environments, effective maintenance management and reliability engineering are essential for ensuring operational efficiency, reducing downtime, and improving asset performance. The Maintenance & Reliability Professional (CMRP) training program provides professionals with the knowledge and best practices required to implement world-class maintenance and reliability strategies.

This course is designed to help engineers, maintenance managers, and technical professionals develop a comprehensive understanding of maintenance planning, reliability-centered maintenance (RCM), asset management, and maintenance performance improvement. Participants will learn how to optimize maintenance processes, reduce equipment failures, and enhance the overall reliability of critical assets.

The program also focuses on essential areas such as preventive maintenance, predictive maintenance, root cause analysis, maintenance planning and scheduling, and reliability engineering principles. These practices enable organisations to maximize asset availability, improve operational safety, and reduce maintenance costs.

Through practical case studies and industry-based frameworks aligned with CMRP certification standards, participants will gain the skills needed to implement effective maintenance strategies,

improve equipment reliability, and support sustainable operational performance across industrial operations

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Target Audience

- ✓ Maintenance Engineers, Supervisors, Managers, Planners, Schedulers, and Asset Management professionals.
- ✓ Also, we recommend it for Operation Engineers.
- ✓ This training program is a great preparation for the CMRP exam, together with your accumulated practical experience.

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Learning Objectives

- ✓ The 5 Pillars of SMRP Book.
- ✓ Leading their Organization and Management into Planned Maintenance effectiveness.
- ✓ Understand new maintenance methodologies and their application.
- ✓ Identify and plan best practices for an effective maintenance and reliability program.
- ✓ Improve the use of information and communication tools between related parties and/or departments in Maintenance and Reliability.
- ✓ Improve consistency and reliability of asset management.
- ✓ Utilize leadership and personal skills to achieve maintenance and reliability excellence.
- ✓ Optimize preventive and predictive maintenance strategies to maximize returns.

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Course Outline

✓ 01 DAY ONE

Introduction:

- ✓ Definitions in Maintenance
- ✓ Evolution of Maintenance Methodologies
- ✓ What is SMRP
- ✓ Why CMRP
- ✓ Maintenance types: Reactive / Periodical / Condition Based / Proactive
- ✓ The P-F / DIPF Curves: Understanding Maintenance over Asset Lifecycle.
- ✓ The universal Maintenance Management process

Pillar 1 - Business and Management

- ✓ Provide Vision, Mission, and measurable goals
- ✓ Organizational structure
- ✓ Key Performance Indicators,
- ✓ KPIs development cycle
- ✓ KPI Examples from SMRP Best Practices
- ✓ Stakeholder analysis
- ✓ Maintenance coordination with EHS

Pillar 2 - Manufacturing Process Reliability

- ✓ Understanding Process and its parameters

- ✓ Flow diagrams: SIPOC / VSM
- ✓ What is Process Improvement?
- ✓ Understanding waste and variability - Lean Six Sigma
- ✓ Wastes Analysis
- ✓ Understanding and studying variability: Six sigma
- ✓ DMAIC process
- ✓ Total Productive Maintenance - TPM and Overall Equipment Effectiveness (OEE)
- ✓ Total Effective Equipment Performance (TEEP)
- ✓ Uptime, Idle Time, and Utilization Time
- ✓ Change Management

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Course Outline

✓ 02 DAY TWO

Pillar 3 - Equipment Reliability

- ✓ Visual Management and 5S Methodology
- ✓ Systems Covered by Criticality Analysis
- ✓ Root Cause Analysis - RCA - techniques
- ✓ 5 Whys
- ✓ FMEA
- ✓ Ishikawa Diagram
- ✓ FTA
- ✓ Pareto Analysis
- ✓ Main Case study for RCA based on the client industry
- ✓ Essential Data Analysis and Visualization
- ✓ Data Management Cycle
- ✓ Data Integrity
- ✓ Essential Statistics
- ✓ Data Charting and Visualization
- ✓ Cost-Benefit Analysis, CBA
- ✓ Reliability of Series and Parallel Systems

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Course Outline

✓ **03 DAY THREE**

Pillar 4 - Organization and Leadership

- ✓ Skills Gap Analysis
- ✓ Inventory staff skills, determine performance gaps
- ✓ Leadership role
- ✓ Situational Leadership
- ✓ Basic motivation theories
- ✓ Avoiding the blame culture
- ✓ The cycle of decision-making
- ✓ Understanding team development phases

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✓ 04 DAY FOUR

Pillar 5 - Work Management

- ✓ What is a Prioritization System?
- ✓ Reliability Centered Maintenance, RCM
- ✓ Basic Planning parameters for an effective maintenance job and work order
- ✓ Essential Maintenance Planning Skills
- ✓ Essential Maintenance Scheduling Skills
- ✓ Maintenance Shutdown Costs
- ✓ Actual Cost to Planning Estimate
- ✓ Planning Variance Index
- ✓ Planned Backlog/Ready Backlog
- ✓ Stores Management Essentials
- ✓ The ABC store Management
- ✓ Determining different store levels (Reorder, Minimum, Maximum, Danger) and the spare part life cycle
- ✓ Economic reorder quantity, EOQ

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✓ 05 DAY FIVE

Extra topics (according to time availability or client preferences)

- ✓ Review of Lubrication basics
- ✓ Essential Computerized Maintenance Management System (CMMS) functions and development phases
- ✓ Technical Report Writing Basics
- ✓ Life Cycle Costing - LCC

The following KPIs will be discussed through the session in their relative locations and according to time availability:

- ✓ Mean Time Between Failures (MTBF)
- ✓ Mean Time to Repair or Replace (MTTR)
- ✓ Mean Time Between Maintenance (MTBM)
- ✓ Mean Downtime (MDT)
- ✓ Mean Time to Failure (MTTF)
- ✓ Ratio of Replacement Asset Value (RAV) to Craft-Wage Head Count
- ✓ Stocked Maintenance, Repair, and Operating (MRO) Inventory Value as a Percent of Replacement Value
- ✓ Total Maintenance Cost as a Percent of Replacement Asset Value
- ✓ Maintenance Training Cost /hours
- ✓ Maintenance Training Return on Investment (ROI)
- ✓ Preventive Maintenance (PM) & Predictive Maintenance (PdM) Work Orders Overdue

- ✓ PM & PdM Yield and Compliance
- ✓ Craft Worker to Supervisor / to Planner ratios
- ✓ Direct to Indirect Maintenance Personnel Ratio
- ✓ Overtime Maintenance Cost

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 20, 2026	July 24, 2026	5 days	4950.00 \$	Netherlands , Amsterdam
Dec. 28, 2026	Jan. 1, 2027	5 days	2150.00 \$	Virtual , Online
March 14, 2027	March 18, 2027	5 days	4250.00 \$	KSA , Riyadh
April 25, 2027	April 29, 2027	5 days	4250.00 \$	KSA , Dammam

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