

Course Name

Certified Maintenance & Reliability Professional (CMRP)

Sector Name

Maintenance & Reliability Management

Document Type

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Course Introduction

Effective Maintenance Management is the hub of a well-functioning maintenance organization. In order for maintenance to work, many other systems need to work well.

This comprehensive **5-day** program is designed based on the SMRP Book of Knowledge to benefit both new and experienced professionals. The SMRP Book is based on 5 pillars that build vertical and horizontal knowledge of the 21st-century maintenance professional.

It covers advanced best maintenance practices that a qualified professional would require to carry out their duty, starting with the first steps and building up knowledge and experience to a fully functional maintenance organization.

The program is built on two parallel tracks:

The first is learning applicable concepts that can benefit participants immediately after the session, and the second is providing a roadmap to pass the CMRP certification exam.



This program is designed to transfer knowledge and to be a stimulating experience. It is highly interactive with many discussions, group activities, and case studies.

This certification program (CMRP) provides a unique skill set by going beyond textbook knowledge and testing real-world experiences and abilities. SMRP values data-driven excellence, sharing/collaboration, membership focus, continuous improvement, accountability, trust and respect, integrity, and social responsibility.

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Target Audience

- ✓ Maintenance & Reliability Engineers – Improving asset performance and uptime.
- ✓ Maintenance Managers & Supervisors – Leading maintenance and reliability programs.
- ✓ Plant & Facility Managers – Optimizing maintenance strategies for efficiency.
- ✓ Operations & Production Managers – Aligning maintenance with business goals.
- ✓ Asset Management Professionals – Implementing reliability-centered maintenance.

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Learning Objectives

- ✓ 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.
- ✓ This training program is designed for 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

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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



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Course Outline

✓ 02 DAY TWO

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

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

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

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✓ 05 DAY FIVE

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
June 14, 2027	June 18, 2027	5 days	4250.00 \$	UAE , Dubai
July 26, 2027	July 30, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Nov. 30, 2026	Dec. 4, 2026	5 days	4950.00 \$	Spain , Barcelona
Jan. 17, 2027	Jan. 21, 2027	5 days	4250.00 \$	KSA , Riyadh

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