

CERTIFIED MAINTENANCE & RELIABILITY PROFESSIONAL (CMRP)

“Master Strategic Maintenance and Reliability Practices to Become a Certified Leader in Asset Performance.”

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

This intensive 5-day training program is designed to prepare professionals for the Certified Maintenance & Reliability Professional (CMRP) exam, offered by the Society for Maintenance & Reliability Professionals (SMRP). The course covers the five pillars of SMRP’s Body of Knowledge: Business & Management, Manufacturing Process Reliability, Equipment Reliability, Organization & Leadership, and Work Management. Through expert-led sessions, real-world case studies, and structured exam prep exercises, participants will develop the skills and strategic mindset needed to lead maintenance and reliability initiatives across any asset-intensive industry.

Objectives

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

- Understand and apply the five domains of SMRP’s CMRP Body of Knowledge
- Use reliability and asset management principles to improve organizational performance
- Align maintenance strategies with business goals and KPIs
- Lead initiatives in predictive maintenance, RCM, and work execution
- Prepare confidently for the CMRP certification exam

Why Attend

This course is ideal for professionals seeking formal recognition of their expertise in maintenance and reliability. It equips you with the knowledge to lead data-driven strategies, reduce downtime, extend asset life, and achieve world-class operational excellence.

Target Audience

- Maintenance & Reliability Engineers
- Asset Managers and Plant Managers
- Maintenance Supervisors and Team Leaders
- CMMS & Work Management Professionals
- Technical Consultants and Industrial Engineers
- Professionals preparing for the CMRP certification exam

Individual Benefits

- Earn international recognition as a Certified Maintenance & Reliability Professional
- Deepen your understanding of reliability, leadership, and process optimization
- Gain confidence in decision-making and strategic planning
- Enhance your career mobility and professional credibility

Organizational Benefits

- Improve asset reliability and reduce lifecycle costs
- Build internal leadership for reliability and performance excellence
- Enhance operational efficiency, safety, and profitability
- Strengthen alignment between technical functions and business objectives

Instructional Methodology

- Interactive lectures with real-world examples and SMRP-aligned frameworks
- Group activities and case studies reflecting each CMRP domain
- CMRP-style practice exams and quizzes for exam readiness
- Peer collaboration and group problem-solving exercises
- Knowledge recap sessions and study strategy workshops

Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

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: Business & Management Domain

- Module 1: Overview of the CMRP Exam & Body of Knowledge (07:30 – 09:30)
- Module 2: Aligning Maintenance Strategy with Business Goals (09:45 – 11:15)
- Module 3: Performance Measurement: KPIs, ROI, and Benchmarking (11:30 – 01:00)
- Module 4: Risk Management and Strategic Asset Planning (02:00 – 03:30)

Day 2: Manufacturing Process Reliability

- Module 1: Understanding the Production Process and Failure Modes (07:30 – 09:30)
- Module 2: Process Control, Quality Integration, and Continuous Improvement (09:45 – 11:15)
- Module 3: Root Cause Analysis and Six Sigma Tools in MPR (11:30 – 01:00)
- Module 4: Mapping Reliability into Manufacturing Flow (02:00 – 03:30)

Day 3: Equipment Reliability

- Module 1: Asset Criticality Analysis and FMEA (07:30 – 09:30)
- Module 2: Predictive Technologies: Vibration, Thermography, Lubrication (09:45 – 11:15)
- Module 3: Reliability-Centered Maintenance (RCM) and Failure Patterns (11:30 – 01:00)
- Module 4: Maintenance Strategy Optimization and CBM (02:00 – 03:30)

Day 4: Organization & Leadership + Work Management

- Module 1: Building a Reliability Culture and Organizational Structure (07:30 – 09:30)
- Module 2: Training, Competency Mapping & Leadership Development (09:45 – 11:15)
- Module 3: Work Planning, Scheduling & CMMS Optimization (11:30 – 01:00)
- Module 4: Shutdown Planning, Backlog Management & Workflow Design (02:00 – 03:30)

Day 5: CMRP Exam Preparation & Final Review

- Module 1: CMRP Practice Test – Domain-Based Mock Questions (07:30 – 09:30)
- Module 2: Exam Strategy, Timing, and Tips for Success (09:45 – 11:15)
- Module 3: Group Review – Case Studies Across All Domains (11:30 – 01:00)
- Module 4: Final Assessment, Feedback & Certification Wrap-Up (02:00 – 03:30)

Certification

Participants will receive a Certificate of Completion – CMRP Preparation Course. This program is aligned with SMRP's Body of Knowledge and serves as an official preparatory pathway for those pursuing the Certified Maintenance & Reliability Professional (CMRP) designation.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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In-House / Customized Training

Interested in running this course for your team?

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