

CERTIFIED MAINTENANCE & REALIABILITY TECHNICIAN (CMRT)

"Advance Your Technical Expertise and Prepare for CMRT Certification with Confidence."

Schedule

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

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

Introduction

This comprehensive course is designed to prepare professionals for the Certified Maintenance & Reliability Technician (CMRT) examination, administered by the Society for Maintenance & Reliability Professionals (SMRP). The program equips technicians with essential knowledge and practical skills in preventive and predictive maintenance, troubleshooting, mechanical systems, and maintenance practices. Combining theory with case-based learning, the course reinforces the four domains of the CMRT exam, making it ideal for technicians aspiring to validate and enhance their technical capabilities.

Objectives

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

- Understand the four CMRT exam domains and their core competencies
- Perform and troubleshoot industrial equipment using best practices
- Apply predictive and preventive maintenance techniques
- Interpret machinery and system schematics effectively
- Prepare thoroughly for the CMRT certification exam with confidence

Why Attend

This course bridges knowledge gaps and enhances job-readiness for technical maintenance professionals. It's perfect for those seeking industry-recognized certification and aiming to improve their job performance and career growth in maintenance and reliability roles.

Target Audience

- Maintenance Technicians
- Mechanical and Electrical Technicians
- Reliability and Maintenance Engineers
- Technical Supervisors and Team Leads
- Plant Operations and Utility Technicians
- Professionals preparing for the CMRT Exam

Individual Benefits

- Gain internationally recognized certification preparation
- Improve knowledge in troubleshooting and maintenance practices
- Enhance career prospects in reliability and maintenance roles
- Strengthen technical decision-making and diagnostics skills

Organizational Benefits

- Boost workforce capability in maintenance and reliability
- Reduce equipment failures and improve uptime
- Enhance asset reliability and preventive maintenance standards
- Increase safety, efficiency, and overall equipment effectiveness (OEE)

Instructional Methodology

- Instructor-led interactive lectures with visual aids and real-world examples
- Practice quizzes aligned with CMRT domains and exam structure
- Equipment case studies, diagrams, and fault analysis exercises
- Peer discussions, mock exams, and knowledge recap activities
- Technical troubleshooting demonstrations and scenario-based learning

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: Overview and Maintenance Practices (Domain 1)

- Module 1: Introduction to CMRT – Exam Framework and Certification Process (07:30 – 09:30)
- Module 2: Maintenance Types: Reactive, Preventive, Predictive, Proactive (09:45 – 11:15)
- Module 3: Lubrication, Torqueing, and Assembly Best Practices (11:30 – 01:00)
- Module 4: Job Plans, Work Orders, and Maintenance Documentation (02:00 – 03:30)

Day 2: Preventive & Predictive Maintenance (Domain 2)

- Module 1: Overview of Predictive Maintenance Technologies (07:30 – 09:30)
- Module 2: Vibration Analysis, Thermography, and Ultrasonics (09:45 – 11:15)
- Module 3: Oil Analysis and Condition Monitoring Techniques (11:30 – 01:00)
- Module 4: Equipment Monitoring & Inspection Checklists (02:00 – 03:30)

Day 3: Troubleshooting & Analysis (Domain 3)

- Module 1: Root Cause Failure Analysis (RCFA) and Troubleshooting Models (07:30 – 09:30)
- Module 2: Interpreting Equipment Failures and Common Faults (09:45 – 11:15)
- Module 3: Mechanical Systems Fault Isolation: Pumps, Motors, Valves (11:30 – 01:00)
- Module 4: Electrical Systems Fault Analysis: Circuits, Fuses, Sensors (02:00 – 03:30)

Day 4: Corrective Maintenance & Installation (Domain 4)

- Module 1: Tools and Safety Procedures for Repair Work (07:30 – 09:30)
- Module 2: Disassembly, Repair, and Reassembly of Industrial Components (09:45 – 11:15)
- Module 3: Alignment, Calibration, and Leveling Techniques (11:30 – 01:00)
- Module 4: Installation Standards and Best Practices (02:00 – 03:30)

Day 5: Exam Readiness & Certification Preparation

- Module 1: CMRT Practice Exam and Problem-Solving Session (07:30 – 09:30)
- Module 2: Review of Key Concepts Across All Domains (09:45 – 11:15)
- Module 3: Exam Strategy, Time Management, and Common Pitfalls (11:30 – 01:00)
- Module 4: Final Assessment, Feedback & Action Planning (02:00 – 03:30)

Certification

Participants will receive a Certificate of Completion – CMRT Preparation Course. This course is aligned with SMRP's CMRT certification body of knowledge and supports participants in preparing for the official CMRT exam.

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