

CMRP (CERTIFIED MAINTENANCE AND RELIABILITY PROFESSIONAL) - CERTIFICATE EXAM PREPARATION

"Master the Five Pillars of Reliability Excellence and Achieve CMRP Certification Success"

Schedule

Date	Venue	Fees (Face-to-Face)
21 - 25 Jun 2026	Abu Dhabi, UAE	USD 3495 per delegate

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

Introduction

The Certified Maintenance and Reliability Professional (CMRP) credential, governed by the Society for Maintenance and Reliability Professionals (SMRP), is the premier certification for reliability and physical asset management professionals. This intensive preparation course equips participants with the essential knowledge and tools to succeed in the CMRP exam by aligning with SMRP's Five Pillars of the Body of Knowledge.

Designed for individuals aiming to validate their expertise in maintenance and reliability practices, this course offers a structured, exam-focused curriculum, supported by case studies, quizzes, practical applications, and instructor-led guidance. It also serves as a valuable foundation for enhancing organizational asset performance and professional credibility.

Objectives

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

- Understand the SMRP framework and exam structure for CMRP certification
- Apply best practices across the five CMRP pillars: Business & Management, Equipment Reliability, Manufacturing Process Reliability, Organization & Leadership, and Work Management
- Identify knowledge gaps and focus on high-weight exam topics
- Analyze maintenance and reliability case scenarios aligned with global standards
- Build a structured study and exam preparation strategy for certification success

Why Attend

- Gain in-depth exposure to the CMRP Body of Knowledge and assessment domains
- Prepare confidently for the globally recognized CMRP exam
- Benchmark your maintenance practices with world-class reliability standards
- Accelerate your career in asset management and operational excellence
- Receive expert-led training, review questions, and mock exam sessions

Target Audience

This program is designed for:

- Maintenance and reliability professionals pursuing CMRP certification
- Asset and operations managers responsible for plant or equipment reliability
- Engineers and planners in maintenance, production, or facility management
- Technical team leaders and supervisors in manufacturing or energy sectors
- Consultants and trainers in maintenance best practices

Individual Benefits

Key competencies that will be developed include:

- Understanding and applying the Five Pillars of maintenance reliability
- Strategic planning and performance measurement for maintenance
- Failure mode and root cause analysis
- Work execution planning, scheduling, and optimization
- Leadership and communication skills in reliability culture development

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved equipment reliability and uptime through globally recognized methods
- Standardization of maintenance and reliability processes using SMRP guidelines
- Reduced downtime, maintenance costs, and operational risks
- Stronger leadership and accountability within asset teams
- Organizational readiness for certification, benchmarking, and audits

Instructional Methodology

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

- Strategy Briefings - SMRP exam structure and core domains explained
- Case Studies - Real-world application of maintenance and reliability principles
- Workshops - Exam simulations, study plans, domain analysis
- Peer Exchange - Exam prep tips, role-based challenges, practical experiences
- Tools - CMRP mock exams, self-assessment checklists, formula guides

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: CMRP Introduction & Business & Management Pillar

- Module 1: Overview of SMRP & CMRP Certification (07:30 - 09:30) • Exam logistics, question types, certification path
- Module 2: Business & Management (09:45 - 11:15) • Mission, vision, KPIs, strategic alignment
- Module 3: Measuring and Driving Organizational Performance (11:30 - 01:00) • Scorecards, benchmarking, ROI
- Module 4: Workshop - Self-Assessment and Strategic Planning (02:00 - 03:30) • Practice questions and diagnostics

Day 2: Manufacturing Process Reliability Pillar

- Module 5: Process Flow and Reliability Principles (07:30 - 09:30) • Lean manufacturing, bottlenecks, uptime improvement
- Module 6: Process Mapping and Asset Alignment (09:45 - 11:15) • CMMS usage, flow efficiency, integration
- Module 7: Continuous Improvement Tools (11:30 - 01:00) • TPM, Six Sigma, PDCA, Kaizen
- Module 8: Workshop - Identify Process Waste & Reliability Gaps (02:00 - 03:30) • Problem-solving through case scenarios

Day 3: Equipment Reliability Pillar

- Module 9: Reliability Engineering Concepts (07:30 - 09:30) • RCM, FMEA, failure modes, Weibull
- Module 10: Preventive and Predictive Maintenance (09:45 - 11:15) • CBM technologies: vibration, ultrasound, oil analysis
- Module 11: Root Cause Analysis and Downtime Data (11:30 - 01:00) • RCFA steps, Pareto, fishbone diagrams
- Module 12: Workshop - Build a Reliability Strategy (02:00 - 03:30) • Use CMMS/RCM data to improve asset availability

Day 4: Work Management Pillar

- Module 13: Planning and Scheduling Fundamentals (07:30 - 09:30) • Work order process, backlog control, kitting
- Module 14: Resource Management and Execution (09:45 - 11:15) • Planning roles, job plans, coordination
- Module 15: Performance Measurement and Improvement (11:30 - 01:00) • Planner metrics, wrench time, compliance
- Module 16: Workshop - Optimize a Maintenance Work Plan (02:00 - 03:30) • Apply workflow improvements and review sample job plans

Day 5: Organization & Leadership Pillar + Final Review

- Module 17: Building a Reliability Culture (07:30 - 09:30) • Training, leadership, communication, motivation
- Module 18: Safety, Environmental, and Regulatory Integration (09:45 - 11:15) • Compliance, audits, incident prevention
- Module 19: Mock Exam and Final Strategy Review (11:30 - 01:00) • Simulated questions and exam readiness plan
- Module 20: Workshop - Final Q&A and Exam Preparation (02:00 - 03:30) • Clarifications, feedback, post-training plan

Certification

Participants will receive a Certificate of Completion in CMRP Exam Preparation, confirming their readiness to sit for the SMRP's Certified Maintenance & Reliability Professional examination and apply best-practice strategies across all five CMRP domains.

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