MRT – Maintenance and Reliability Technician Certification

31 May – 11 June 2027
Cape Town (South Africa)



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Introduction

In today's fast-moving industrial world, every second counts. For any maintenance technician, mastering time management is not just a skill—it's a strategic advantage. Whether you're new to the field or already working as a facility maintenance technician, general maintenance technician, or even an equipment maintenance technician, your ability to optimize time and reliability will define your career.

Wondering "what is MRT?" or curious about becoming a Certified Maintenance and Reliability Technician CMRT? This internationally recognized credential is the gold standard for professionals who ensure that machines keep running, facilities stay efficient, and downtime is a rare event.

Over an intensive 2-week journey, this course equips you not just to pass the CMRT exam, but to elevate your technical expertise, diagnostic precision, and problem-solving agility. From reading schematics faster to organizing maintenance tasks more effectively, you'll learn how to operate like a top-tier reliability technician—because in maintenance, time is your most valuable tool.

Course Objectives

By the end of this maintenance technician training, you will be able to:

- Understand and apply core principles of maintenance, reliability, and time management.
- Execute preventive, predictive, and corrective maintenance strategies with confidence.
- Conduct structured troubleshooting using Root Cause Analysis RCA.
- Read schematics, manuals, and technical documents efficiently.
- Approach the CMRT exam with confidence through focused mock exams and simulations.

Course Outlines

Day 1: Maintenance & Reliability Fundamentals

- Overview of reactive, preventive, and predictive maintenance.
- What is MRT in the context of maintenance operations?
- Defining the maintenance technician role in optimizing time.
- Understanding KPIs for productivity.
- Intro to the CMRT certification format.



Day 2: Preventive Maintenance PM

- Time-based PM scheduling and planning.
- Improving inspection routines through time quality management.
- Essential tools and documents for the certified maintenance technician.
- Sample questions aligned with CMRT testing formats.

Day 3: Predictive Maintenance PdM

- Using data and diagnostics to prevent failures.
- Applying vibration, infrared, and oil analysis to save time.
- Time-saving tools for predictive maintenance.
- Efficient scheduling of PdM tasks.

Day 4: Troubleshooting & Problem Solving

- Fundamentals of RCA and FMEA.
- Streamlining diagnostics with time-saving workflows.
- Fast interpretation of technical schematics.
- Real-world cases on reducing response time.

Day 5: Maintenance Tools & Equipment

- Choosing the right tools for efficient results.
- Calibration and diagnostic techniques.
- Time-focused safety protocols for facility maintenance technicians.
- Checklists and time-saving habits for routine tasks.

Day 6: Electrical Maintenance

- Lockout/Tagout procedures for safety and speed.
- Quick fault tracing using multimeters.
- Reducing downtime during electrical interventions.

Day 7: Mechanical Maintenance

- Applying time-smart strategies to lubrication, bearings, and hydraulics.
- Aligning mechanical repairs with reliability goals.
- Downtime reduction methods for mechanical assets.

Day 8: Work Management & Documentation

- Prioritizing work orders in a CMMS system.
- Balancing time and cost constraints.
- Communication and reporting as tools for time optimization.



Day 9: Knowledge Management in Maintenance

- Integrating knowledge management KM into maintenance workflows.
- Ensuring smooth workforce transitions through documentation.
- Aligning KM strategies with digital transformation.

Day 10: Final Review & Certification Prep

- Recap of key maintenance and time management principles.
- Best practices for long-term KM and reliability implementation.
- Open forum for Q&A, feedback, and next steps.
- Issuance of certificate of participation.

Why Attend this Course: Wins & Losses!

- Understand what MRT means in modern maintenance environments.
- Gain credibility as a certified maintenance technician or reliability technician.
- Eliminate time-wasting habits and improve your daily maintenance performance.
- Align your work with international standards in reliability and operations.
- Master real-world strategies that minimize downtime and maximize uptime.

Conclusion

Technical knowledge is just one side of the maintenance equation. The other? Flawless execution through planning, speed, and smart decision-making.

Whether you're working at MRT stations, managing assets as a facilities maintenance technician, or asking "what does a maintenance technician do?"—this course will transform your skill set and mindset. By earning your CMRT certification, you'll stand out as the technician who doesn't just fix issues... but prevents them.

Join us and redefine your approach to maintenance—minute by minute, system by system.

