



## **The Certified Maintenance & Reliability Professional CPD Training Course**



**AGILE LEADERS**  
Training Center



# The Certified Maintenance & Reliability Professional CPD Training Course

## Course Overview:

The course is designed to equip industrial professionals with the essential skills and knowledge to excel in maintenance and reliability. This complete course focuses on best practices in maintenance and reliability, preparing participants for the CMRP certification exam. By incorporating key topics such as preventive maintenance training, total productive maintenance TPM, condition-based maintenance techniques, and inventory management for maintenance, this course ensures a well-rounded education. Participants will learn about maintenance planning and scheduling, equipment criticality analysis, and reliability engineering principles. With practical insights into maintenance cost reduction strategies, industrial maintenance certification, and reliability block diagram training, this course offers a thorough preparation for maintenance and reliability challenges. The training includes CMRP exam tips and a detailed study plan to boost exam confidence. Engaging methodologies like case studies, group work, and interactive sessions ensure a dynamic learning experience, preparing participants for real-world industrial problems.

## Target Audience:

- Maintenance and Reliability Engineers
- Maintenance Managers
- Reliability Engineers
- Industrial Maintenance Technicians
- Plant Managers
- Engineering Managers
- Project and Product Managers in the Maintenance and Reliability domain
- Professionals preparing for CMRP certification

## Targeted Organizational Departments:

- Maintenance Department
- Reliability Engineering Department
- Industrial Operations
- Engineering and Technical Services
- Production and Manufacturing
- Asset Management
- Inventory Management

## Targeted Industries:

- Manufacturing



- Oil and Gas
- Energy and Utilities
- Automotive
- Aerospace
- Pharmaceuticals
- Food and Beverage
- Chemical Processing
- Heavy Machinery
- Facilities Management

## Course Offerings:

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

- Implement best practices in maintenance and reliability
- Prepare and succeed in the CMRP certification exam
- Develop and execute a complete maintenance and reliability study plan
- Conduct equipment criticality analysis and maintenance planning
- Optimize inventory management for maintenance
- Apply preventive and condition-based maintenance techniques
- Utilize reliability block diagrams and reliability-centred maintenance RCM strategies
- Improve asset availability and reliability
- Reduce maintenance costs through strategic approaches

## Training Methodology:

This course employs a variety of engaging training methodologies to ensure an effective learning experience. Participants will benefit from case studies that illustrate real-world scenarios in maintenance and reliability. Group work and interactive sessions foster collaborative learning and problem-solving skills. Feedback sessions provide personalized guidance and reinforce key concepts.

## Course Toolbox:

- complete workbooks
- CMRP study guides and resources
- Case study materials
- Reading materials on best practices in maintenance and reliability

## Course Agenda:

### Day 1: Fundamentals of Maintenance and Reliability

- **Topic 1:** Maintenance Definition and Benefits
- **Topic 2:** Different Maintenance Philosophies



- **Topic 3:** Corrective Maintenance
- **Topic 4:** Preventive Maintenance
- **Topic 5:** Condition-Based Maintenance
- **Topic 6:** Proactive Maintenance
- **Reflection & Review:** Reflection on Day 1 Training

## **Day 2: Work Management: Planning & Scheduling**

- **Topic 1:** Overview and Importance of Work Management
- **Topic 2:** Importance of Job Flow Process
- **Topic 3:** Work Categorization and Corrective Maintenance
- **Topic 4:** Work Prioritization
- **Topic 5:** Equipment Criticality Analysis
- **Topic 6:** Planning and Scheduling Process
- **Reflection & Review:** Reflection on Day 2 Training

## **Day 3: Inventory Management**

- **Topic 1:** Introduction and Functions of Inventory Management
- **Topic 2:** Inventory Types and Dead Stock
- **Topic 3:** Hidden Stock and Material Storage Systems
- **Topic 4:** Inventory Optimization Tools and Techniques
- **Topic 5:** CMMS and Shelf Life Management System
- **Topic 6:** Inventory Accuracy and Parts Knitting
- **Reflection & Review:** Reflection on Day 3 Training

## **Day 4: Advanced Reliability and Maintenance Concepts**

- **Topic 1:** Reliability & MTBF Mean Time Between Failures
- **Topic 2:** Maintainability & MTTR Mean Time to Repair
- **Topic 3:** Asset Availability and Problem Solutions
- **Topic 4:** Reliability Block Diagram
- **Topic 5:** Asset Life Cycle Cost
- **Topic 6:** Total Productive Maintenance TPM Principles
- **Reflection & Review:** Reflection on Day 4 Training

## **Day 5: CMRP Exam Preparation and Advanced Techniques**

- **Topic 1:** CMRP Exam Tips and Study Plan
- **Topic 2:** CMRP Mock Tests and Exam-Type Questions
- **Topic 3:** Building a Reliability Culture: Organizational Culture and Leadership
- **Topic 4:** Lube Oil Analysis and Infrared Thermography
- **Topic 5:** Electrical Condition-Based Monitoring and NDT Techniques
- **Topic 6:** Vibration Analysis: Techniques and Categories



- **Reflection & Review:** Reflection on Day 5 Training and Course Summary

## **How This Course is Different from Other Certified Maintenance & Reliability Professional CPD Training Courses:**

This CPD Training Course stands out by offering a complete and practical approach to maintenance and reliability. Unlike other courses, this program includes detailed CMRP exam preparation with mock tests and study plans, ensuring participants are thoroughly prepared for certification. The course covers a wide range of topics, from preventive maintenance training to reliability block diagram analysis, providing a holistic view of the field. Interactive sessions, case studies, and practical exercises make the learning experience engaging and applicable to real-world situations. Participants gain access to innovative tools and resources, such as CMMS training software and inventory optimization techniques, enhancing their professional development.

# WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

## OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

## OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

## WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



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## CONTACT US

 UAE, Dubai Investment Park First

 +971585964727  
 +447700176600

 [sales@agile4training.com](mailto:sales@agile4training.com)



## Gamified and Interactive Training

We understand that training delivery can be challenging, both online and offline. To ensure engagement and achieve learning objectives, we have developed our own activities and collaborated with industry-leading solutions to gamify our training sessions. This approach increases interaction levels and guarantees effective learning outcomes.



## Our Training Categories

We cover a wide range of training categories to cater to different needs and interests

- Branding, Marketing, Customer Relations, & Sales Programs
- Finance and Accounting Programs
- Human Resources Management Programs
- Management & Leadership Programs
- Political & Public Relations Programs
- Project Management Programs
- Quality & Process Management
- Self-Development Programs

Join Agile Leaders today and embark on a transformative journey towards becoming a more agile and effective leader. Experience our customer-centric approach, actionable training, and guaranteed return on investment. Let us help you unleash your full potential in the dynamic business landscape.



## Where to Find Us

You can join our training programs at our centers located in

We also offer online training sessions through the Zoom platform.



- Malaysia**  
Kuala Lumpur
- Morocco**  
Casablanca
- Spain**  
Barcelona
- France**  
Paris
- UK**  
London
- Italy**  
Rome
- Egypt**  
Cairo  
Sharm El-Sheikh
- Turkey**  
Istanbul
- Georgia**  
Tbilisi
- Azerbaijan**  
Baku
- UAE**  
Dubai



UAE, Dubai Investment Park First



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+447700176600



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