



# دورة الفني المعتقد في الصيانة والموثوقية للتطوير المهني



## دورة الفني المصنوع في الصيانة والموثوقية للتطوير المهني

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### Course Overview:

The course is a complete program designed to equip participants with the essential skills and knowledge required for a successful career in industrial maintenance. This course addresses the needs of multicrafted maintenance technicians, offering a holistic view of the field that encompasses mechanical, electrical, and welding maintenance.

Participants will gain expertise in key areas such as mechanical power transmission, bearings, lubrication, pump and compressor maintenance, fluid power, piping systems, electrical fundamentals, programmable logic controllers, and welding techniques. This training is aligned with the Society for Maintenance & Reliability Professionals SMRP

-Certified Maintenance & Reliability Technician CMRT certification exam, ensuring that participants are well prepared for certification. The course emphasizes preventive maintenance techniques, safety and installation, and provides a detailed understanding of industrial print reading skills. By the end of the course, participants will be proficient in maintenance and reliability practices, making them valuable assets to their organizations.

### Target Audience:

- Maintenance Technicians
- Reliability Technicians
- Industrial Maintenance Technicians
- Mechanical Engineers
- Electrical Engineers
- Welding Technicians
- Preventive Maintenance Specialists
- Maintenance Managers
- Reliability Engineers
- Facilities Managers

### Targeted Organizational Departments:

- Maintenance Department
- Reliability Engineering Department
- Facilities Management
- Mechanical Engineering Department
- Electrical Engineering Department
- Welding Department
- Operations and Production Department

## Targeted Industries:

- Manufacturing
- Oil and Gas
- Utilities
- Transportation
- Aerospace
- Automotive
- Chemical Processing
- Food and Beverage

## Course Offerings:

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

- Apply advanced mechanical maintenance techniques.
- Implement effective electrical maintenance strategies.
- Perform welding maintenance with proficiency.
- Develop and implement preventive maintenance plans.
- Utilize fluid power maintenance skills.
- Maintain and troubleshoot piping systems.
- Understand and apply power transmission maintenance techniques.
- Enhance safety and installation practices.
- Master the use of programmable logic controllers.
- Conduct precise mechanical power transmission and bearings maintenance.
- Utilize test equipment effectively for maintenance tasks.
- Interpret industrial print readings accurately.
- Implement motor control circuits and electronic variable-speed drives.
- Prepare for the SMRP CMRT certification exam with confidence.

## Training Methodology:

The training course employs a variety of engaging and interactive training methodologies. Participants will benefit from case studies, group work, and interactive sessions that provide practical insights into real-world maintenance challenges. The course also includes feedback sessions, allowing participants to reflect on their learning and receive constructive instructor feedback. Hands-on exercises and demonstrations will be used to reinforce key concepts, ensuring that participants gain a thorough understanding of the material. This multifaceted approach ensures that learners are engaged and able to apply their newfound knowledge effectively in their workplaces.

## Course Toolbox:

- complete workbooks
- Interactive Online Resources
- Industry-Specific Reading Materials
- Practical Exercises and Case Studies
- Detailed Industrial Print Reading Samples



## Course Agenda:

### Day 1: General Knowledge

- Safety Topic 1: •
- Tools and Fasteners Topic 2: •
- Industrial Print Reading Topic 3: •
- Safety and Installation Topic 4: •
- Overview of Multicrafted Maintenance Skills Topic 5: •
- Introduction to SMRP Certification Topic 6: •
- Reflect on key learnings from general knowledge and how they apply to maintenance **Reflection & Review:** •  
and reliability practices.

### Day 2: Mechanical Knowledge

- Mechanical Power Transmission Topic 1: •
- Bearings and Coupled Shaft Alignment Topic 2: •
- Lubrication Techniques Topic 3: •
- Seals and Packing Topic 4: •
- Pumps and Compressors Maintenance Topic 5: •
- Fluid Power Systems Topic 6: •
- Review the day's topics with a focus on mechanical maintenance skills and practical **Reflection & Review:** •  
applications.

### Day 3: Electrical Knowledge

- Electrical Fundamentals for Technicians Topic 1: •
- Test Equipment for Maintenance Technicians Topic 2: •
- Basic Resistive Electrical Circuits Topic 3: •
- Reactive Circuits and Power Factor Correction Topic 4: •
- Wiring Methods and National Electrical Code Topic 5: •
- Transformers and Power Distribution Topic 6: •
- Reflect on electrical knowledge gained and discuss how these skills enhance **Reflection & Review:** •  
maintenance reliability.

### Day 4: Advanced Electrical and Control Systems

- Electrical Machinery and Control Devices Topic 1: •
- Motor Control Circuits Topic 2: •
- Basic Industrial Electronics Topic 3: •
- Electronic Variable-Speed Drives Topic 4: •
- Programmable Logic Controllers PLCs Topic 5: •
- Industrial Lighting Systems Topic 6: •
- Review advanced electrical and control system topics, emphasizing their role in **Reflection & Review:** •  
maintenance and reliability.

## Day 5: Welding Knowledge and Preventive Maintenance

- Gas Welding Techniques Topic 1: •
- Arc Welding Skills Topic 2: •
- Developing Preventive Maintenance Plans Topic 3: •
- Implementing Mechanical Preventive Maintenance Topic 4: •
- Implementing Electrical Preventive Maintenance Topic 5: •
- complete Overview of Maintenance and Reliability Certification Preparation Topic 6: •
- Reflect on welding knowledge and preventive maintenance strategies, tying together **Reflection & Review**: •
- all course topics for exam preparation.

## How This Course is Different from Other Maintenance and Reliability Courses:

The Certified Maintenance & Reliability Course stands out from other similar courses due to its complete coverage of mechanical, electrical, and welding maintenance skills. The course is uniquely designed to prepare participants for the SMRP CMRT certification exam, ensuring they gain industry-recognized credentials. The training methodologies employed, including hands-on exercises, case studies, and interactive sessions, provide a practical learning experience that is directly applicable to the workplace. The course toolbox, which includes complete workbooks, online resources, and access to SMRP study guides, offers extensive support to participants throughout their learning journey. This course not only enhances participants' technical skills but also equips them with the knowledge and tools needed to excel in their roles as maintenance and reliability professionals.



## فئات الدورات التدريبية



HR TRAINING & DEVELOPMENT

دورات إدارة و تطوير الموارد البشرية



دورات إدارة و تحليل البيانات ودورات علم البيانات



دورات إدارة الجودة وتطوير العمليات



الدورات التدريبية في مجال البيئة والاستدامة



دورات التسويق وإدارة علاقات العملاء وإدارة المبيعات



دورات التدريب القانوني والمشتريات والتعاقدات



دورات الاتصال الجماهيري و السياسات والعلاقات العامة



دورات النظم السيرياني ودورات تقنية المعلومات



دورات الصيانة ودورات المجالات الهندسية المتنوعة



دورات الصحة والسلامة والأمن المهني



دورات السكرتارية و إدارة المكاتب



دورات الحوكمة وإدارة المخاطر والامتثال



**AGILE LEADERS**  
Training Center

## فئات الدورات التدريبية



دورات معتمدة من قبل هيئات دولية



دورات في مجالات القيادة والإدارة



دورات المهارات الشخصية وتطوير الذات



دورات المحاسبة و التمويل و دورات الإدارة  
المالية



دورات مكتب إدارة المشاريع وإدارة المشاريع  
الرشيقية

## مدن التدريب



أهستردام - هولندا



أكرا - غانا



أثينا - اليونان



أبوظبي - الإمارات العربية المتحدة



الدوحة - قطر



الدار البيضاء - المغرب



الجبيل - المملكة العربية السعودية



اسطنبول - تركيا



المنامة - مملكة البحرين



الكويت - الكويت



القاهرة - مصر



الرياض - المملكة العربية السعودية



بانكوك - تايلند



بالي - جمهورية اندونيسيا



باكو - أذربيجان



باريس - فرنسا

## مدن التدريب



تبليسي - جورجيا



بوكيت - تايلاند



برشلونة - إسبانيا



براغ - جمهورية التشيك



دبي - الإمارات العربية المتحدة



جوهانسبرغ - جنوب إفريقيا



جنيف - سويسرا



جاكرتا - جمهورية إندونيسيا



سيول - كوريا الجنوبية



سان دييغو - الولايات المتحدة الأمريكية



زنجر - تنزانيا



روما - إيطاليا



طشقند - أوزبكستان



طرابزون - تركيا



شيكاغو - الولايات المتحدة الأمريكية



شرم الشيخ - مصر

## مدن التدريب



فيينا - النمسا



عن بعد - منصة زووم



عمان - المملكة الأردنية الهاشمية



طوكيو - اليابان



لندن - المملكة المتحدة



لانكاوي - ماليزيا



كاب تاون - جنوب إفريقيا



كوالالمبور - ماليزيا



مونتر - سويسرا



مسقط - سلطنة عمان



مدريد - إسبانيا



ماربيا - إسبانيا



نيس - فرنسا



نairobi - كينيا



ميونخ - ألمانيا



ميلان - إيطاليا

# 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.



**AGILE LEADERS**  
Training Center

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