

COURSE OVERVIEW RE0017 Certified Maintenance & Reliability Professional (CMRP)

(SMRP Exam Preparation Training)

Course Title

Certified Maintenance & Reliability Professional (CMRP): (SMRP Exam Preparation Training)

Course Date/Venue

January 26-30, 2025/TBA Meeting Room, Gezi Hotel Bosphorus, Istanbul, Turkey

CEUS

30 PDHs)

Course Reference RE0017

Course Duration/Credits Five days/3.0 CEUs/30 PDHs

Course Description





Examining more than just textbook information, the CMRP is a thorough examination of a broader scope of expertise measured against a universal standard. It was developed to assess professionals' aptitude within the five (5) pillars of the Maintenance and Reliability Body of Knowledge: Business Management, Reliability, Equipment Manufacturing Process Reliability, Organization and Leadership, and Work Management.

Every organization has a process for handling and documenting maintenance issues. Some are as simple and informal as the user calls maintenance to come fix something. Others use high powered computerized maintenance management software (CMMS).



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Some organizations use formal planning and scheduling while others have the maintenance personnel plan and schedule their own work. Experience has shown that more informal and less planned and scheduled work is highly inefficient. On the other hand, too much planning, scheduling and documentation can also inefficiently use maintenance resources. The aim is to find the right balance of planning, scheduling and documentation to maximize the use of maintenance resources. In addition, one of the biggest challenges to adopting new processes is gaining acceptance at all levels in the organization. Management of change techniques is essential to a successful program.

This interactive course is designed to provide the participants with the information needed to understand their own maintenance management process as well as make improvements to their processes, so they can more effectively and efficiently use their maintenance resources. The participants will understand basic process development, planning and scheduling concepts and have the tools they need to work within their organization to improve the way they manage maintenance work.

The course includes an e-book entitled "*Maintenance and Reliability Certification Exam Guide*", published by Industrial Press, Inc., which will be given to the participants to help them appreciate the principles presented in the course.

This course shall provide adequate knowledge and skill for the participants to develop a strategy for outstanding maintenance and reliability performance, tools to improve reliability at equipment level and an insight to the latest practices in planning, scheduling and control. This course shall provide maintenance and an in-depth overview of the five pillars of the SMRP Body of Knowledge, along with the award-winning UK Model of Excellence for Maintenance.

Course Objectives

Upon the successful completion of the course, each participant will be able to:-

- Get prepared for the next CMRP exam and have enough knowledge and skills to pass such exam in order to get the CMRP certification from SMRP
- Create strategic direction and plan for maintenance and reliability operations, administer strategic plans and measure performance
- Manage organizational changes, communicate with stakeholders and manage environmental-health-safety risk
- Describe manufacturing process reliability including the applicable processes
- Apply process improvement techniques, manage effects of change to processes and equipment and maintain processes in accordance with applicable standards and regulations
- Determine equipment reliability expectations, evaluate equipment reliability and identify improvement opportunities
- Develop a strategic plan to assure the reliability of existing and new equipment
- Employ selected plans for implementation and assure equipment reliability
- Review reliability of equipment and adjust reliability strategy
- Determine organizational requirements and analyze organizational capability'



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- Develop the organization structure and personnel as well as lead and manage people
- Identify, validate, approve, prioritize, plan, schedule, execute and document work in a professional manner
- Analyze work follow-up, measure work management performance and plan and execute projects
- Use information technologies effectively and manage resources and materials

Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive "Haward Smart Training Kit" (**H-STK**[®]). The **H-STK**[®] consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.

Who Should Attend

This course covers systematic techniques in maintenance and reliability management to assist maintenance management personnel responsible for delivering maximum reliability and availability of equipment at the lowest possible cost. The course will present techniques designed to improve the effectiveness of maintenance management activities, to ensure that physical assets perform their required functions, operate reliably, and support corporate goals. It is essential for all maintenance and reliability management staff including reliability and mechanical engineers who are directly responsible for the equipment reliability and maintenance. The course is ideal for those experienced maintenance and reliability professionals who are seeking an international professional certification.

Exam Eligibility & Structure

The CMRP is an experienced-based exam. A candidate is unlikely to pass the exam based on knowledge gained from a book, course or educational degree.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.



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SMRP-CMRP Certificate(s)

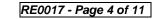
(1) SMRP-CMRP certificates will be issued to participants who have successfully passed the SMRP-CMRP examination.

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Certifying Organiza	tion	
Be it known	that	
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is hereby recognized by the SMRP Certifying Organization as a CERTIFIED MAINTENANCE AND RELIABILITY PROFESSIONAL and is granted all the rights, honors and privileges of this achievement.		
Issued on: November 11, 2021 SMRP ID: 363414 Expiration Date: November 10, 2024 101-3383-445478	David Koner Hal David Resenthal CMRP SMRP Centrying Organization Char David R. D. D. D.	
Centified Maintenance & Reliability Professional	Poul Costo, CMRP, CMRT, CATTO SMRP Char SMRP Char Mab phone will Https: Charton CMID ¹ Directions	

(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course

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Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -



British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

The International Accreditors for Continuing Education and Training (IACET USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.



Society for Maintenance & Reliability Professionals (SMRP)

The course instructor is certified by **The Society for Maintenance & Reliability Professionals (SMRP)** to deliver and administer its internationally-recognized qualifications and certification programs on Maintenance & Reliability Best Practices. **SMRP** is a nonprofit professional society formed by practitioners to advance the reliability and physical asset management industry and to create leaders in the field. SMRP provides unparalleled value for individual practitioners looking to expand their knowledge and skills in maintenance and reliability and build more business connections with other



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Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Mr. Yehia Omer is a Senior Inspection & Maintenance Engineer with over 25 years of extensive experience within the Oil & Gas and Other Energy Sectors. His expertise lies extensively in the areas of Process Plant Shutdown & Turnaround, Maintenance Optimization & Best Auditing Benchmarking, Practices. Maintenance & Reliability Management, Reliability Centered Maintenance (RCM), Maintenance Planning & Scheduling, Maintenance Management & Cost Control, Preventive & Predictive Maintenance, Effective Reliability Maintenance & Superior Maintenance Strategies, Integrity & Asset

Management, Reliability, Availability & Maintainability (RAM), Total Plant Reliability Centered Maintenance, Shutdown & Turnaround Management, Integrity & Asset Management, Maintenance Management Best Practices, Material Cataloguing, Maintenance Planning & Scheduling, Effective Reliability Maintenance, Mechanical & Rotating Equipment Optimization. Troubleshooting Maintenance, Rotating Equipment Reliability & Computerized Maintenance Management System (CMMS), Material Cataloguing & Specifications and Rotating Equipment Maintenance & Troubleshooting. Further, he is also well-versed in Pressure Vessel Inspection (API 510), Piping Inspection (API 570), Tank Inspection (API 653), Process Piping Design, Construction & Mechanical Integrity (ASME B31.3 & API 570), Inspection of Pressure Relieving Devices, Risk Based Inspection (RBI), Fitness-for-Service (FFS), P&ID & Engineering Drawings, Codes & Standards, Corrosion & Corrosion Control and Corrosion Awareness & Monitoring. Further, he is also wellversed in Welding Inspection, Inspection and Testing of Plant & Equipment including vessels, tanks, pipework, pipelines, structural systems and an international expert in API, ASME, NACE, NDT, ANSI, ASTM, BSI, DEP, DIN and other engineering specifications and international standards. He is currently the Inspection & Corrosion Manager of BPC which is a partner of Shell wherein he is responsible for the corrosion and inspection aspects of the whole company.

Mr. Yehia has obtained and shared his in-depth practical experience wherein he was responsible for the inspection and recertification of pressure vessels, piping, tank and structures as he held numerous key positions for multi-international companies including BPC (Shell), PetroJet, RashPetco (BG), Libya SIRTE Company and ADCO as the Head of Inspection & Corrosion, Pressure Vessel Inspector, Piping Inspector, Tank Inspector, Welding Inspection Engineer, Inspection Engineer Maintenance & Reliability Engineer, Mechanical Engineer, Piping Engineer, Inspection Advisor and API Inspection Engineer.

Mr. Yehia has a Bachelor's degree in Mechanical Engineering. Further, he is a Certified Instructor/Trainer, a Certified Pressure Vessel Inspector (API-510), a Certified Piping Inspector (API-570), a Certified Tank Inspector (API-653), a Certified Maintenance and Reliability Professional (CMRP) from the Society of Maintenance & Reliability Professionals (SMRP), and has acquired certifications in Pressure Vessel Design and Inspection (ASME VIII DIV I&II) and Corrosion in Petroleum Industries from the American University as well as a Competent Scaffolding Supervisor certificate from the Occupational Safety and Health Administration (OSHA). He has further delivered numerous trainings, courses, seminars, conferences and workshops globally.



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Training Fee

US\$ 6,500 per Delegate. + **VAT** This rate includes H-STK[®] (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Exam Fee

US\$ 630 per Delegate + VAT.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1:	Sunday, 26 th of January 2025
0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0830 - 0930	Business & ManagementCreate Strategic Direction & Plan for Maintenance & Reliability Operations (ProvideVision & Direction, Provide Clear & Measurable Goals) • Administer Strategic Plan(Develop Support, Obtain Approval & Resources, Implement Plans)
0930 - 0945	Break
0945 - 1100	Business & Management (cont'd) Measure Performance (Select Key Performance Indicators, Track & Report) • Manage Organizational Plan (Develop Change Management Process, Communicate Benefits)
1100 - 1230	Business & Management (cont'd) Communicate with Stakeholders (Provide Management Reports, Inform Staff, Coordinate with Operations)
1230 - 1245	Break
1245 - 1330	Business & Management (cont'd) Manage Environmental-Health-Safety Risk (Support Community EHS Goals, Support Security Goals, Conform to Applicable Regulations, Provide EHS Training)
1330 - 1420	Quiz
1420 - 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day One

Day 2:

Monday, 27th of January 2025

0730 - 0830	Review of Day 1	
0830 - 0930	Manufacturing Process ReliabilityUnderstand the Applicable Processes (Document Process Flow, Understand ProcessParameters, Understand Quality Specifications)	
0930 - 0945	Break	
0945 - 1100	Manufacturing Process Reliability (cont'd) Apply Process Improvement Techniques (Identify Production Losses, Establish Continuous Improvement Process)	



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1100 - 1230	Manufacturing Process Reliability (cont'd)Manage Effects of Change to Processes & Equipment (Establish Change Protocol,Update Documentation, Update Procedures)
1230 - 1245	Break
1245 - 1330	Manufacturing Process Reliability (cont'd) Maintain Processes per Applicable Standards & Regulations (Understand Industry Standards, Understand Regulatory Requirements, Ensure Compliance)
1330 - 1420	Quiz
1420 - 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Two

0730 - 0830	Tuesday, 28th of January 2025 Review of Day 2
0830 - 0930	Equipment Reliability Determine Equipment Reliability Expectations (Identify Reliability Goals, Identify Process Expectations) • Evaluate Equipment Reliability & Identify Improvement Opportunities (Measure & Track Performance, Determine Best-Demonstrated Performance, Analyze Gaps)
0930 - 0945	Break
0945 – 1100	<i>Equipment Reliability (cont'd)</i> <i>Establish a Strategic Plan to Assure Reliability of Existing Equipment (Identify Appropriate Analysis Techniques, Develop Maintenance Strategy & Tactics)</i> • <i>Establish a Strategic Plan to Assure Reliability of New Equipment (Establish Reliability Specifications, Establish Acceptance Criteria, Obtain Complete Documentation)</i>
1100 - 1230	<i>Equipment Reliability (cont'd)</i> Cost-Justify Selected Plans for Implementation (Conduct Cost-Benefit Analysis, Communicate Benefits, Obtain Approval) • Implement Selected Plans to Assure Equipment Reliability (Apply Reliability Strategies, Establish Organization Structure, Provide Resources)
1230 - 1245	Break
1245 - 1330	Equipment Reliability (cont'd) Review Reliability of Equipment & Adjust Reliability Strategy (Assess Key Performance Indicators, Analysis Deviations, Identify Relevant Best Practices, Implement Continuous Improvement)
1330 - 1420	Quiz
1420 - 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Three



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Day 4:	Wednesday, 29 th of January 2025
0730 - 0830	Review of Day 3
0830 - 0930	Organization & Leadership Determine Organizational Requirements (Review Strategic Plan, Determine Required Skills, Determine Required Staffing Levels) • Analyze Organizational Capability (Inventory Staff Skills, Determine Performance Gaps)
0930 - 0945	Break
0945 - 1100	Organization & Leadership (cont'd) Develop the Organizational Structure (Establish Reporting Channels, Determine Roles, Determine Responsibilities, Manage Reorganization)
1100 - 1230	Organization & Leadership (cont'd) Develop Personnel (Provide Training, Obtain Needed Expertise, Delineate Career Paths)
1230 - 1245	Break
1245 - 1330	Organization & Leadership (cont'd) Lead & Manage People (Develop Leadership Skills, Assess Performance, Promote a Cooperative Work Environment, Facilitate Communication)
1330 - 1420	Quiz
1420 - 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Four

Day 5:	Thursday, 30 th of January 2025
0730 - 0830	Review of Day 4
0830 - 0930	Work ManagementIdentify, Validate & Approve Work (Establish Work Identification Processes, Select & Approve Viable Work) • Prioritize Work (Develop Formal Prioritizing System, Implement Formal Prioritizing System) • Plan Work (Develop Job Package, Including Scope & Procedures, Including Materials & Tools, Including Testing)
0930 - 0945	Break
0945 – 1100	Work Management (cont'd) Schedule Work (Develop Scheduling Process, Produce Work Schedule, Balance Resources, Monitor Backlog, Manage Break-in Work, Coordinate Equipment Access) • Execute Work (Manage Labor, Manage Material & Services, Control Productivity, Ensure EHS Compliance) • Document Work (Create Post-Work Document Process, Record Failure Events & Failure Modes)
1100 - 1230	Work Management (cont'd) Analyze Work & Follow-Up (Compare Actual Work with Plan, Identify Variances) • Measure Work Management Performance (Establish Performance Indicators, Report Schedule Compliance & Rework) • Plan & Execute Projects (Define Scope, Estimate Project & Life Cycle Costs, Apply Critical Path Methods, Track Progress, Coordinate Staffing)
1230 - 1245	Break



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1245 - 1345	Work Management (cont'd) Use Information Technologies Effectively (Leverage Capabilities of Data Historian, Process Control Systems, Condition Monitoring Software, EAM, CMMS Systems Functionality) • Manage Resources & Materials (Control Materials Inventory, Manage Spares & Equipment, Establish MRO Procurement Process, Manage Contractors)
1345 - 1400	<i>Course Conclusion</i> <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Course</i> <i>Topics that were Covered During the Course</i>
1400 - 1415	POST-TEST
1415 - 1430	Presentation of Course Certificates
1430	Lunch & End of Course

MOCK Exam

Upon the completion of the course, participants have to sit for a MOCK Examination similar to the exam of the Certification Body through Haward's Portal. Each participant will be given a username and password to log in Haward's Portal for the MOCK exam during the 30 days following the course completion. Each participant has only one trial for the MOCK exam within this 30-day examination window. Hence, you have to prepare yourself very well before starting your MOCK exam as this exam is a simulation to the one of the Certification Body.

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-





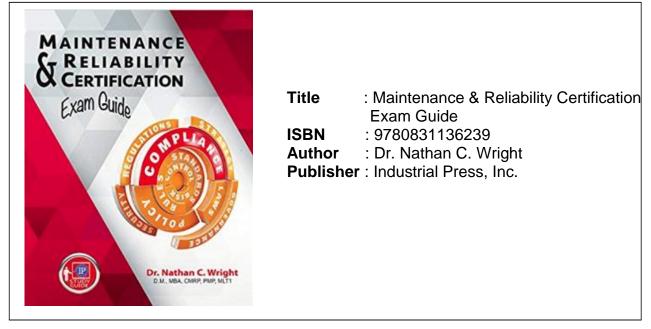
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<u>Book(s)</u>

As part of the course kit, the following e-book will be given to all participants:



<u>Course Coordinator</u> Mari Nakintu, Tel: +971 2 30 91 714, Email: <u>mari1@haward.org</u>



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