



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 19-23, 2025/ TBA Meeting Room, Hilton Kuwait Resort, Mangaf, Kuwait City, Kuwait

Course Reference

RE0017

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs



Course Description



This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

The Certified Maintenance & Reliability Professional (CMRP) program is the #1 leading credentialing program for certifying the knowledge, skills and abilities of maintenance and reliability professionals. The CMRP program is certified by the Society for Maintenance and Reliability Professionals (SMRP).



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, Equipment Reliability, 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).





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'



- 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.

SMRP-CMRP Certificate(s)

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



- (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

CEU Official Transcript of Records

Haward Technology Middle East
Continuing Professional Development (HTME-CPD)

TOR Issuance Date: 14-Nov-23
HTME No: 74861
Participant Name: Waleed Al Habeeb

| Program Ref. | Program Title | Program Date | No. of Contact Hours | CEU's |
|--------------|---|----------------------|----------------------|-------|
| REC017 | Certified Maintenance & Reliability Professional (CMRP): SMRP Exam Preparation Training | November 10-14, 2023 | 30 | 3.0 |

Total No. of CEUs Earned as of TOR Issuance Date: **3.0**

TRUE COPY
Jaryl Castillo
Academic Director

Haward Technology has been approved as an Accredited Provider by the International Association for Continuing Education and Training (IACET), 2301 Corporate Way, Suite 800, Lenexa, VA 20171, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2018 Standard which is widely recognized as the standard of good practice internationally. As a result of their Advanced membership status, Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2018 Standard.

Haward Technology's courses meet the performance, proficiency and reliability standards set forth by the International Association 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 unit of measurement in qualified courses of continuing education.

Haward Technology is accredited by:

- BAC
- ITM
- IACET
- APU

PO. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 3091 714 | E-mail: info@haward.org | Website: www.haward.org

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -



- 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 practitioners.



- 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.



- 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.

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. Dimitry Rovas, CEng, MSc, PMI-PMP, SMRP-CMRP, is a **Senior Maintenance Engineer** with extensive industrial experience in **Oil, Gas, Power** and **Utilities** industries. His expertise includes **Process Plant Shutdown & Turnaround, Maintenance Optimization & Best Practices, Maintenance Auditing & Benchmarking, Reliability Management, Reliability Centered Maintenance Principles & Application, Machinery Lubrication, Maintenance Planning & Scheduling, Coupling & Shaft Alignment Techniques, 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, Turnaround & Outages, Process Plant Shutdown, Turnaround & Troubleshooting, Shutdown & Turnaround Management, Integrity & Asset Management, Maintenance Management Best Practices, Material Cataloguing, Maintenance Planning & Scheduling, Effective Reliability Maintenance, Maintenance Contracting & Outsourcing, Maintenance Inventory, Materials Management, Mechanical & Rotating Equipment Troubleshooting & Maintenance, Rotating Equipment Reliability Optimization, Computerized Maintenance Management System (CMMS), Material Cataloguing & Specifications, Rotating Equipment Maintenance & Troubleshooting, Pump Technology, Pump Selection & Installation, Reciprocating & Centrifugal Compressors, Gas & Steam Turbines, Turbine Operations, Valves, Bearings & Lubrication, Rubber Compounding, Elastomers, Thermoplastic, Industrial Rubber Products, Rubber Manufacturing Systems, Heat Transfer, Vulcanization Methods, Energy Conservation, Energy Loss Management, Energy Saving, Thermal Power Plant Management, Cogeneration Power Plant Installation & Commissioning, Auxiliary Steam Boilers Troubleshooting, Piping Racks (Steel Structure, Valves, Pipe Supports) Commissioning, Firefighting Systems, Steel & Welded Tanks, Aluminium Logistics Facilities (Cranes, Laydown Areas, Port Facilities, etc), Equipment Heavy Lifting, Long Term Storage of Equipment, Heat Transfer, Fluid Mechanics, Heating & Cooling Systems, Heat Insulation Systems, Heat Exchanger & Cooling Towers, Mechanical Erection and Heavy Rotating Equipment. He is currently the **Project Manager** wherein he is managing, directing and controlling all activities and functions associated with the domestic heating/cooling facilities projects.

During his life career, Mr. Rovas has gained his practical and field experience through his various significant positions and dedication as the **EPC Project Manager, Maintenance Manager, Mechanical Engineer, Field Engineer, Preventive Maintenance Engineer, Lead Rotating Equipment Commissioning Engineer, Construction Commissioning Engineer, Offshore Lead Maintenance Engineer, Researcher, Instructor/Trainer, Telecom Consultant and Consultant** from various companies such as the Mytilineos Aluminium Group, Podaras Engineering Studies, Metka and Diadikasia, S.A., **Hellenic Petroleum Oil Refinery** and COSMOTE.

Mr. Rovas is a **Chartered Engineer** of the **Technical Chamber** of Greece. Further, he has **Master** degrees in **Mechanical Engineering** and **Energy Production & Management** from the **National Technical University of Athens**. Moreover, he is a **Certified Instructor/Trainer**, a **Certified Maintenance and Reliability Professional (CMRP)** from the Society of Maintenance & Reliability Professionals (**SMRP**), a **Certified Project Management Professional (PMP)**, an **Approved Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)** and a **Certified Six Sigma Black Belt**. He is an active member of Project Management Institute (**PMI**), Technical Chamber of Greece and Body of Certified Energy Auditors and has further delivered numerous trainings, seminars, courses, workshops and conferences internationally.



Training Fee

US\$ 5,500 per Delegate. 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.

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, 19th of January 2025

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|-------------|---|
| 0730 – 0800 | Registration & Coffee |
| 0800 – 0815 | Welcome & Introduction |
| 0815 – 0830 | PRE-TEST |
| 0830 – 0930 | Business & Management Create Strategic Direction & Plan for Maintenance & Reliability Operations (Provide Vision & 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, 20th of January 2025

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|-------------|---|
| 0730 – 0830 | Review of Day 1 |
| 0830 – 0930 | Manufacturing Process Reliability Understand the Applicable Processes (Document Process Flow, Understand Process Parameters, 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 |

Day 3: Tuesday, 21st of January 2025

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| 0730 - 0830 | 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 | Equipment Reliability (cont'd) Establish a Strategic Plan to Assure Reliability of Existing Equipment (Identify Appropriate Analysis Techniques, Develop Maintenance Strategy & Tactics) • Establish a Strategic Plan to Assure Reliability of New Equipment (Establish Reliability Specifications, Establish Acceptance Criteria, Obtain Complete Documentation) |
| 1100 - 1230 | Equipment Reliability (cont'd) 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 |

Day 4: Wednesday, 22nd of January 2025

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| 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 |



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| 0945 - 1100 | Organization & Leadership (cont'd) <i>Develop the Organizational Structure (Establish Reporting Channels, Determine Roles, Determine Responsibilities, Manage Reorganization)</i> |
| 1100 - 1230 | Organization & Leadership (cont'd) <i>Develop Personnel (Provide Training, Obtain Needed Expertise, Delineate Career Paths)</i> |
| 1230 - 1245 | Break |
| 1245 - 1330 | Organization & Leadership (cont'd) <i>Lead & Manage People (Develop Leadership Skills, Assess Performance, Promote a Cooperative Work Environment, Facilitate Communication)</i> |
| 1330 - 1420 | Quiz |
| 1420 - 1430 | Recap <i>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</i> |
| 1430 | Lunch & End of Day Four |

Day 5: Thursday, 23rd of January 2025

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| 0730 - 0830 | Review of Day 4 |
| 0830 - 0930 | Work Management <i>Identify, 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)</i> |
| 0930 - 0945 | Break |
| 0945 - 1100 | Work Management (cont'd) <i>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)</i> |
| 1100 - 1230 | Work Management (cont'd) <i>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)</i> |
| 1230 - 1245 | Break |
| 1245 - 1345 | Work Management (cont'd) <i>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)</i> |
| 1345 - 1400 | Course Conclusion <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Course 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.

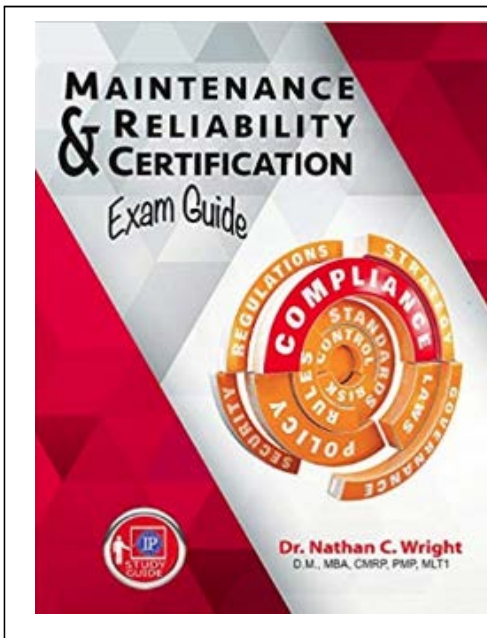
Practical Sessions

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



Book(s)

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



Title : Maintenance & Reliability Certification Exam Guide
ISBN : 9780831136239
Author : Dr. Nathan C. Wright
Publisher : Industrial Press, Inc.

Course Coordinator

Jaryl Castillo, Tel: +974 4423 1327, Email: jaryl@haward.org

