COURSE OVERVIEW RE0593
Preventive & Predictive Maintenance for Maintenance Planners

Course Title
Preventive & Predictive Maintenance for Maintenance Planners

Course Date/Venue
April 05-09, 2026/Meeting Plus 9, City Centre Rotana, Doha, Qatar

Course Reference
RE0593

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

Course Description

This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.

This course is designed to provide participants with a detailed and up-to-date overview of Preventive & Predictive Maintenance for Maintenance Planners. It covers the maintenance management, roles and responsibilities of maintenance planners and maintenance strategies; the asset management fundamentals, reliability and failure concepts and failure analysis; the preventive maintenance principles, PM task development and maintenance task analysis; the PM scheduling and workload balancing, PM compliance and effectiveness and PM optimization techniques; the predictive maintenance, condition monitoring techniques and data collection and analysis; translating PdM findings into work; and the PdM integration into maintenance planning.

During this interactive course, participants will learn the limitations and challenges of PdM, maintenance planning process, job planning and estimating and scheduling best practices; the CMMS/EAM utilization, spare parts, materials planning, performance measurement and KPIs; the reliability-centered maintenance (RCM), risk-based maintenance planning and continuous improvement in maintenance; the transitioning from PM to PdM by identifying PdM candidates, data and technology requirements, change management challenges and measuring PdM success; aligning maintenance with business goals, maintenance policy and governance, budgeting and cost control; and the long-term asset care plans.

Course Objectives

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

- Apply and gain an in-depth knowledge on preventive and predictive maintenance
- Discuss maintenance management including roles and responsibilities of maintenance planners and maintenance strategies
- Recognize asset management fundamentals, reliability and failure concepts and failure analysis
- Apply preventive maintenance principles, PM task development and maintenance task analysis
- Employ PM scheduling and workload balancing, PM compliance and effectiveness and PM optimization techniques
- Carryout predictive maintenance, condition monitoring techniques and data collection and analysis
- Translate PdM findings into work and apply PdM integration into maintenance planning
- Discuss limitations and challenges of PdM and apply maintenance planning process, job planning and estimating and scheduling best practices
- Carryout CMMS/EAM utilization, spare parts and materials planning, performance measurement and KPIs
- Apply reliability-centered maintenance (RCM), risk-based maintenance planning and continuous improvement in maintenance
- Describe transitioning from PM to PdM by identifying PdM candidates, data and technology requirements, change management challenges and measuring PdM success
- Align maintenance with business goals and apply maintenance policy and governance, budgeting and cost control and long-term asset care plans

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 provides an overview of all significant aspects and considerations of preventive and predictive maintenance for maintenance planners and schedulers, maintenance supervisors and coordinators, reliability engineers and maintenance engineers, asset management professionals, operations and production supervisors involved in maintenance planning, maintenance managers aiming to improve maintenance strategies, maintenance data analysts and condition monitoring personnel and other technical staff.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Haward's 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**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). 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.

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**), a **Certified 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 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.

Course Fee

US$ 6,000 per Delegate. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Program

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

Day 1: ***Sunday, 05th of April 2026***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Introduction to Maintenance Management*** *Evolution of Maintenance Strategies • Role of Maintenance in Asset Lifecycle • Cost of Poor Maintenance Practices • Maintenance as a Value Driver*
0930 – 0945	*Break*
0945 – 1030	***Roles & Responsibilities of Maintenance Planners*** *Planner versus Scheduler versus Supervisor • Interfaces with Operations and Engineering • Information Flow and Decision-Making • Planner KPIs and Accountability*
1030 – 1130	***Overview of Maintenance Strategies*** *Reactive (Run-to-Failure) Maintenance • Preventive Maintenance Principles • Predictive and Condition-Based Maintenance • Proactive and Reliability-Centered Maintenance*
1130 – 1215	***Asset Management Fundamentals*** *Asset Criticality Classification • Risk-Based Maintenance Concepts • Failure Consequences and Business Impact • Asset Hierarchy and Structuring*
1215 – 1230	*Break*

1230 – 1330	***Reliability & Failure Concepts*** *Types of Failures (Random versus Age-Related) • Failure Modes and Failure Mechanisms • Mean Time Between Failures (MTBF) • Mean Time to Repair (MTTR)*
1330 – 1420	***Basics of Failure Analysis*** *Failure Mode Identification • Root Cause Analysis (RCA) Basics • Failure Reporting Systems • Continuous Improvement Mindset*
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, 06th of April 2026

0730 – 0830	***Preventive Maintenance Principles*** *Objectives of Preventive Maintenance • Time-Based versus Usage-Based PM • Benefits and Limitations of PM • PM Maturity Levels*
0830 - 0930	***PM Task Development*** *Equipment Manuals and OEM Recommendations • Translating Failures into PM Tasks • Inspection, Servicing and Replacement Tasks • Standard Job Plans*
0930 – 0945	*Break*
0945 – 1100	***Maintenance Task Analysis*** *Task Frequency Determination • Labor and Skill Requirements • Tools, Materials and Spares • Safety and Permit Requirements*
1100 – 1215	***PM Scheduling & Workload Balancing*** *PM Intervals and Calendar Alignment • Resource Leveling • Production Coordination • Shutdown and Outage Planning*
1215 – 1230	*Break*
1230 – 1330	***PM Compliance & Effectiveness*** *PM Compliance Tracking • Measuring PM Effectiveness • Over-Maintenance versus under-Maintenance • Bad Actor Equipment Identification*
1330 – 1420	***PM Optimization Techniques*** *PM Task Elimination • Task Consolidation • Frequency Optimization • Transitioning PM to PdM*
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, 07th of April 2026

0730 – 0830	***Predictive Maintenance*** *Differences Between PM and PdM • Condition-Based Maintenance Concepts • PdM Value Proposition • PdM Readiness Assessment*
0830 – 0930	***Condition Monitoring Techniques*** *Vibration Analysis Fundamentals • Thermography Basics • Oil and Lubricant Analysis • Ultrasonic Testing*
0930 – 0945	*Break*

0945 – 1100	***Data Collection & Analysis*** *Online versus Offline Monitoring • Data Accuracy and Repeatability • Alarm Limits and Thresholds • Trend Analysis and Degradation Patterns*
1100 – 1215	***Translating PdM Findings into Work*** *Condition Reports Interpretation • Failure Progression Timelines • Work Order Prioritization • Planning Corrective Actions*
1215 – 1230	*Break*
1230 – 1330	***PdM Integration into Maintenance Planning*** *Linking PdM Results to CMMS • Planning Windows and Lead Times • Spare Parts Forecasting • Resource and Skill Planning*
1330 – 1420	***Limitations & Challenges of PdM*** *Data Overload Issues • Technology Selection Pitfalls • Skill and Training Requirements • False Alarms and Missed Failures*
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, 08th of April 2026

0730 – 0830	***Maintenance Planning Process*** *Work Identification and Validation • Job Scoping and Planning Steps • Planning Horizons (Short, Medium, Long-Term) • Ready Backlog Management*
0830 – 0930	***Job Planning & Estimating*** *Job Plans and Task Sequencing • Time and Labor Estimating • Craft and Contractor Planning • Standard versus Non-Standard Jobs*
0930 – 0945	*Break*
0945 – 1100	***Scheduling Best Practices*** *Weekly and Daily Scheduling • Schedule Compliance Measurement • Frozen Schedule Concept • Coordination with Operations*
1100 – 1215	***CMMS/EAM Utilization*** *Asset Master Data Quality • Work Order Lifecycle • PM and PdM Configuration • Reporting and Dashboards*
1215 – 1230	*Break*
1230 – 1330	***Spare Parts & Materials Planning*** *Critical Spare Identification • Inventory Optimization • Lead Time and Reorder Strategies • Integration with Maintenance Plans*
1330 – 1420	***Performance Measurement & KPIs*** *Planning and Scheduling KPIs • Maintenance Productivity Indicators • Reliability and Availability Metrics • Continuous Improvement Tracking*
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*

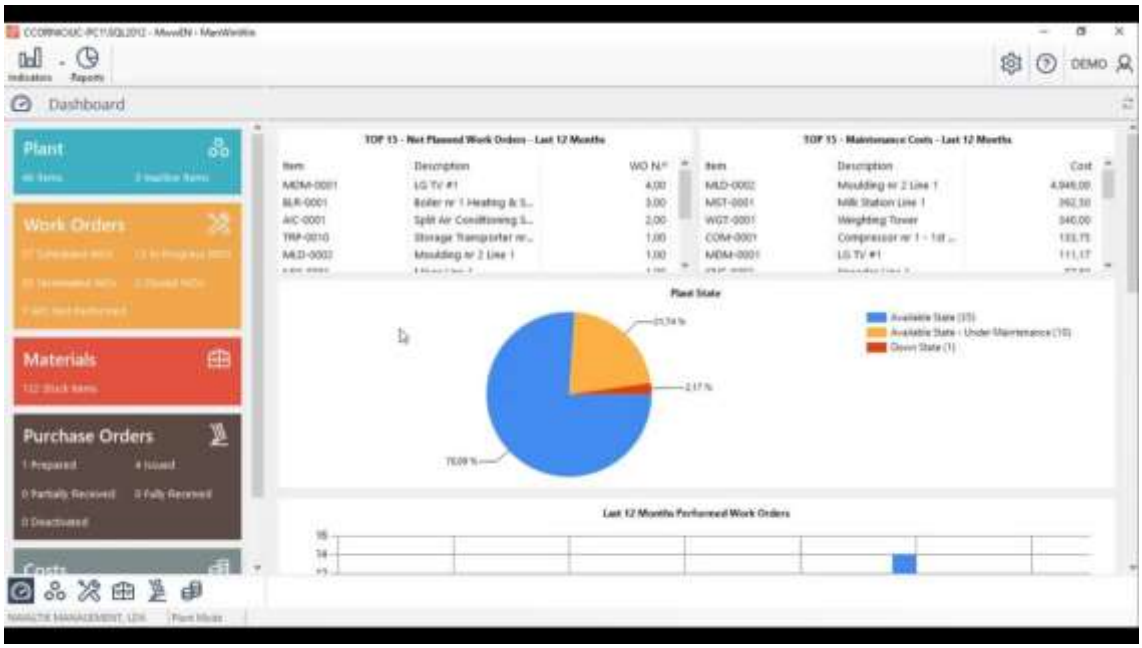
Day 5: ***Thursday, 09th of April 2026***

0730 – 0830	***Reliability-Centered Maintenance (RCM) Overview*** *RCM Principles and Objectives • Functional Failures and Failure Modes • Task Selection Logic • RCM versus Traditional PM*
0830 – 0930	***Risk-Based Maintenance Planning*** *Risk Assessment Techniques • Criticality-Driven Maintenance • Failure Consequence Analysis • Optimizing Maintenance Effort*
0930 – 0945	*Break*
0945 – 1100	***Continuous Improvement in Maintenance*** *PDCA Cycle Application • Maintenance Audits and Assessments • Lessons Learned from Failures • Best Practice Benchmarking*
1100 – 1215	***Transitioning from PM to PdM*** *Identifying PdM Candidates • Data and Technology Requirements • Change Management Challenges • Measuring PdM Success*
1215 – 1230	*Break*
1230 – 1300	***Maintenance Strategy Development*** *Aligning Maintenance with Business Goals • Maintenance Policy and Governance • Budgeting and Cost Control • Long-Term Asset Care Plans*
1300 – 1345	***Case Studies & Practical Applications*** *Real-World PM and PdM Examples • Common Planning Mistakes • Success Factors and Lessons Learned • Group Exercises and Discussions*
1345 – 1400	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Simulator (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using the state-of-the-art simulator "MTBF Calculator" and "ManWinWin Express CMMS Software".

MTBF Calculator



ManWinWin Express CMMS Software

Course Coordinator

Jaryl Castillo, Tel: +974 6652 9196, Email: jaryl@haward.org