

COURSE OVERVIEW RE0225 Certified Maintenance Planner (CMP)

Course Title

Certified Maintenance Planner (CMP)

Course Reference

RE0225

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Date/Venue

Session(s)	Date	Venue
1	January 07-11, 2024	Boardroom 3, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
2	April 28-May 02, 2024	Cheops Meeting Room, Radisson Blu Hotel, Istanbul Sisli, Turkey
3	August 18-22, 2024	Jubail Hall, Signature Al Khobar Hotel, Al Khobar, KSA
4	November 25-29, 2024	Ajman Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Description



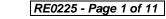




This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.

This course is designed to provide participants with a detailed and up-to-date overview Certified Maintenance Planner (CMP). It covers the maintenance planning and integrated maintenance production management partnership; the planning, coordination and scheduling to management and operations; the good maintenance practices and the responsible supervisor or team leader; the six planning and scheduling principle; and the wrench time, actual hours to plan estimate, planning variance index and enhancing planner productivity.

During this interactive course, participants will learn the backlog management, existing staffing processes and preventive/predictive maintenance inspections; the steady state backlog relief, deferred maintenance, capital program requirements and other considerations for staffing; the planning process (micro-planning) and detailed planning process-materials, tools and equipment; the work measurement, analytical estimating, scheduling maintenance work and job execution; and the job close-out and follow-up, managing planning, direct and indirect measure of planning effectiveness and project planning and management.























Course Objectives

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

- Get certified as a "Certified Maintenance Planner"
- maintenance planning and Discuss integrated maintenance production management partnership
- Explain planning, coordination and scheduling to management and operations as well as identify work sampling, typical maintenance worker's day and symptoms of ineffective job planning
- Carryout good maintenance practices and identify the responsible supervisor or team leader
- Discuss the six planning principles and scheduling principles
- Recognize wrench time and the actual hours to plan estimate
- Explain planning variance index and enhance planner productivity
- Discuss backlog management covering ready backlog and planned backlog as well as review checklist for backlog integrity and develop work programs and backlog weeks trend chart
- Apply existing staffing processes and preventive/predictive maintenance inspections
- Explain steady state backlog relief, deferred maintenance, capital program requirements and other considerations for staffing
- Illustrate planning process (micro-planning) including planning process-screening, scoping, research and detailed planning
- Discuss detailed planning process-materials, tools and equipment
- Employ work measurement, analytical estimating, scheduling maintenance work and job execution
- Carryout job close-out and follow-up, managing planning, direct and indirect measure of planning effectiveness and project planning and management

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, sample video clips of the instructor's actual lectures & practical sessions during the course conveniently saved in a **Tablet PC**.

Who Should Attend

This course covers systematic techniques in maintenance planning, scheduling and work control to assist maintenance team responsible for delivering maximum reliability and availability of equipment at the lowest possible cost. It is intended for plant maintenance engineers, planning engineers, maintenance planners and maintenance coordinators.

To maximize the benefits of the course, delegates should be prepared to actively participate in the course and bring examples of standard work plans, a list of plant performance metrics, the work priority system in-place, and any other planning or scheduling material they would like to review and discuss.

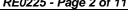


















Course Certificate(s)

Internationally recognized Wall Competency Certificates and Plastic Wallet Card Certificates will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course. Successful candidate will be certified as a "Certified Maintenance Planner". Certificates are valid for 5 years.

Recertification is FOC for a Lifetime.

Sample of Certificates

The following are samples of the certificates that will be awarded to course participants: -



























(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.



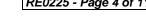






















Certificate Accreditations

Certificates are accredited by the following international accreditation organizations:-



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.

Accommodation

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

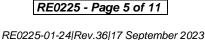




















Course Instructor(s)

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:



Craig Nilsen, CMRP, CRCMP, is a Senior Maintenance & Reliability Engineer with over 25 years of extensive experience within the Oil & Gas, Refinery and Petrochemical industries. His wide expertise includes Maintenance Planning & Scheduling, Maintenance Process. Maintenance Shutdown Planning Turnaround. Maintenance Audit Best Practices, Maintenance & Reliability Management, Reliability Engineering, Maintenance & Reliability Best Practices, Reliability, Availability & Maintainability (RAM), Root Cause

Analysis, Maintenance Process, Reliability-Centered Maintenance (RCM), Reliability Engineering Analysis (RE), Root Cause Analysis (RCA), Asset Integrity Management Reactive & Proactive Maintenance, Maintenance Process, Work Task Prioritization, Condition Monitoring, Mechanical Engineering, Mechanical Manufacturing Engineering, Mechanical Engineering Design, Electro Technology, Maintenance Planning, Spare Parts Planning & Inventory Management, Computerized Maintenance Management Systems (CMMS), Process Plant Shutdown & Turnaround, Maintenance Optimization & Best Practices, Reliability Centered Maintenance Principles & Application, Efficient Shutdowns, Turnaround & Outages, Process Plant Shutdown, Turnaround & Troubleshooting, Shutdown & Turnaround Management, Optimizing Equipment Maintenance & Replacement Decisions, Maintenance Management & Cost Control, Preventive & Predictive Maintenance, Effective Reliability Maintenance & Superior Maintenance Strategies, Integrity & Asset Management, Total Plant Reliability Maintenance, Vibration Measurement, Spare Parts & Materials Management, Mechanical & Rotating Equipment Troubleshooting & Maintenance, Rotating Equipment Reliability Optimization, Laser Alignment, Thermography, Risk Assessment, Legal Liability, Construction Regulations, Machine Vibration Analysis, Bag Filters Operation & Troubleshooting, Blower & Fan, Pumps, Valves, Bearings & Lubrication, Mechanical Seals, Mechanical Equipment Maintenance, Gearboxes, Shaft Alignment, Rotating Equipment, Preventive & Predictive Maintenance, Spare Management and Network Analysis.

During his career life, Mr. Nilsen gained his practical and field experience through his various significant positions and dedication as the Maintenance Engineer, Repair Shop Supervisor, Maintenance & Reliability Specialist, Maintenance Planner/Reliability Specialist, Senior Maintenance Planner/Condition Monitoring Specialist, Supply Chain Maintenance Planner, Technical Advisor, Senior Trainer/Lecturer and Fitter & Turner for Algorax (Pty) Limited.

Mr. Nilsen has a National Higher Diploma in Mechanical Engineering. Further, he is a Certified Instructor/Trainer, a Certified Maintenance and Reliability Professional (CMRP) from the Society of Maintenance & Reliability Professionals (SMRP), a Certified Reliability Centered Management Professional (CRCMP) from the International Organization of RCM Professionals (IORCMP) and a Qualified Fitter & Turner. Moreover, he is an active member of the Society of Maintenance and Reliability Professionals (SMRP) and the South African Asset Management Association (SAMA). He has further delivered numerous trainings, courses, seminars, workshops and conference internationally.





















Training Methodology

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

30% Lectures

20% Workshops & Work Presentations

30% Case Studies & Practical Exercises

20% Software, Simulators & Videos

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

Course Fee

Dubai	US\$ 5,500 per Delegate + VAT This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Istanbul	US\$ 6,000 per Delegate + VAT . This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Al Khobar	US\$ 5,500 per Delegate + VAT This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Abu Dhabi	US\$ 5,500 per Delegate + VAT 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 course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1

<u> </u>	
0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0830 – 0930	Introduction to Maintenance Planning Integrated Maintenance & Production Management Partnership Definitions • Why Plan, Coordinate & Schedule Maintenance Jobs? • Objectives of Work Preparation • Prerequisites • Understanding the Nature of Maintenance Activities & Organizing Accordingly • Organization by Work Type
0930 - 0945	Break
0945 – 1045	Selling Planning, Coordination & Scheduling to Management & Operations Selling Management • Work Sampling • Typical Maintenance Worker's Day - With & Without Planning & Scheduling • Symptoms of Ineffective Job Planning • Convey the Many Benefits that Accrue to Each Stakeholder

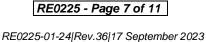






















	Where Planning Fits into Good Maintenance Practices
1045 - 1145	Should Work Preparation be a Separate and Distinct Function? • The Assigned
	Craftsman • The Responsible Supervisor or Team Leader • The Proven Answer •
	Channels of Coordination and Communication • Working Liaisons •
	Maintenance Liaisons • Should Planning be Separate from Scheduling? •
	Clarification of Roles • Relationship with other Functions
1145 – 1200	Break
	Planning Principles
	Six Principles • The Planning Vision; The Mission • Planning Principle 1:
1200 1200	Separate Department • Principle 2: Focus on Future Work • Principle 3:
1200 – 1300	Component Level Files • Principle 4: Estimates Based on Planner Expertise •
	Principle 5: Recognize the Skill of the Crafts • Principle 6: Measure Performance
	with Schedule Compliance
	Scheduling Principles
	Why Maintenance does not Assign Enough Work • Advance Scheduling in an
	Allocation • Principle 1: Plan for Lowest Required Skill Level (Prerequisites of
	Scheduling) • Principle 2: Schedules & Job Priorities are Important (Prerequisites
1300 - 1425	of Scheduling) • Principle 3: Schedule from Forecast of Highest Skills Available
	(Advance Scheduling Process) • Principle 4: Schedule for Every Work Hour
	Available • Principle 4 Brings the Previous Scheduling Principles Together •
	Principle 5: Crew Leader Handles Current Day's Work • Principle 6: Measure
	Performance with Schedule Compliance
	Recap
1425 - 1430	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

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0730 – 0930	Wrench Time Definition • Objectives • Formula • Qualifications • Ample Calculation • Observations • Management of Planners
0930 - 0945	Break
0945 – 1150	Actual Hours to Planning Estimate Definition • Objectives • Formula • Component Definitions • Actual Work Order Hours • Planned Work Order Hours • Qualifications • Sample Calculation • Best in Class Target Value
1150 – 1215	Planning Variance Index Definition • Objectives • Formula • Component Definitions • Sample Calculation
1215 – 1230	Break
1230 – 1330	Planner Productivity Definition • Objectives • Formula • Sample Calculation • Sample #2 Using Job Plans
1330 - 1420	Backlog Management: Ready Backlog Definition • Objectives • Formula • Component Definition • Sample Calculation • Best in Class Target Value: 2 to 4 Weeks
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

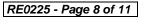




















Day 3

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0730 – 0930	Backlog Management: Planned Backlog Definition • Objectives • Formula • Component Definitions • Ready Work • Sample Calculation • Job Status • Checklist for Backlog Integrity • Development of Work Programs • A Weekly Example of a Work Program • Backlog Weeks Trend Chart
0930 - 0945	Break
0945 – 1045	Sizing the Maintenance Staff Existing Staffing Processes • Preventive/Predictive Maintenance Inspections • Steady State Backlog Relief • Deferred Maintenance • Capital Program Requirements • Summary of Requirements • Other Considerations for Staffing • Another Approach to the Staffing Question
1045 - 1145	The Planning Process (Micro-Planning) Steps of the Planning Process • The Planned Job Package
1145 - 1200	Break
1200 – 1330	The Planning Process-Screening, Scoping, Research & Detailed Planning Screening of Work Requests • Job Assessment & Scoping Check-list • Dealing with Scope Creep • Job Research • Job Preparation • Feedback on the Plan • Job Planning Survey • Coordination of Equipment Access, Permitting, Safety & Statutory Permission
1330 - 1420	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
1420 – 1430	Lunch & End of Day Three

Day 4

Day +	
	Detailed Planning Process-Materials, Tools & Equipment
0730 - 0930	Planner/Scheduler Responsibilities to the Material Management Process •
	Material Related Steps in the Planning of Specific Jobs are Summarized • The
	Planner's Role in Rebuilding • Controlling the Maintenance Storeroom with
	Statistical Inventory Control • JIT Versus SIC
0930 - 0945	Break
	Work Measurement
0945 - 1045	Adjusted Averages • Analytical Estimates • Job Slotting & Labor Libraries •
	Universal Maintenance Standards • Building an Estimate • Job Creep
	Analytical Estimating
1045- 1145	Common Job Sequence • Travel-Time Table • Miscellaneous Provision Table •
1043-1143	The Labour Library • Development of Slotting Tables • Slotting Table
	Cataloguing • Job Estimating Worksheet • Coordination with Operations
1145 – 1200	Break
1200 – 1330	Scheduling Maintenance Work
	The Weekly Expectation • Scheduling Techniques • Instruction for Preparing
	Schedules • Completing the Scheduling Process
1330 - 1420	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
1420 – 1430	Lunch & End of Day Four



















Day 5:	Thursday, 23 rd of November 2023
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Day 5:	Thursday, 23° of November 2023
	Job Execution
0730 - 0930	Three Important Functions • Daily Schedule Adjustment • Planner
	Support of Job Execution • The Morning Meeting
0930 - 0945	Break
	Job Close Out & Follow Up
0945 - 1045	Schedule Compliance • Reasons for Non-Compliance • Reason for Schedule
0943 - 1043	Non-Compliance • Calculation of Schedule Compliance • Sample
	Calculation • Supplementary Metrics
	Planner & Scheduler Metrics
1045 - 1215	Managing Planning • Direct Measure of Planning Effectiveness • Indirect
1043 - 1213	Measures of Planning Effectiveness • The Follow-Up Critique • Activity
	Sampling • Using CMMS to Aid Planning and Scheduling
1215 – 1230	Break
	Planning & Management of Projects
	Project Management Process • Phase One – Project Definition • Phase Two
1230 - 1300	- Preliminary Engineering • Phase Three - Justification and Funding •
1230 - 1300	Phase Four - Detailed project Planning • Phase Five - Project Execution •
	Phase Six - Project Completion and Close-Out • Phase Seven - Project
	Review (6 Months After Completion)
1300 – 1315	Course Conclusion
	Using this Course Overview, the Instructor(s) will Brief Participants about
	the Course Topics that were Covered During the Course
1315 – 1415	COMPETENCY EXAM
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course

















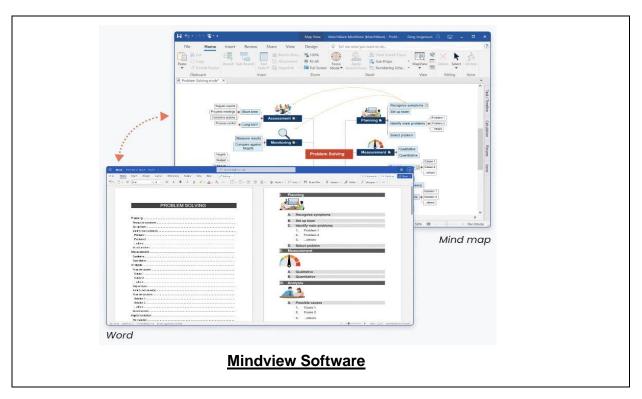




Simulator (Hands-on Practical Sessions)

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 "MS Project" and "Mindview Software".





Course Coordinator

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