

COURSE OVERVIEW RE0225 Certified Maintenance Planner (CMP)

Course Title

Certified Maintenance Planner (CMP)

Course Date/Venue

February 04-08, 2024/Gazania Meeting Room, Carlton Downtown Hotel, Sheikh Zayed Road, Dubai, UAE o CEUs

(30 PDHs)

Course Reference RE0225

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

Course Description









This practical and highly-interactive course various practical includes 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). lt 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.



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Course Objectives

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

- Get certified as a "Certified Maintenance Planner"
- Discuss maintenance planning and 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**.

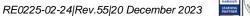
Who Should Attend

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.



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Course Certificate(s)

(1) 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: -







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(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.

H	Haward Technol Continuing Professional De			
	CEU Official Trans	script of Recor	ds	
TOR IssuanceDat	e: 14-Nov-22			
HTME No.	74851			
Participant Name	Waleed Al Habeeb			
Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
RE0225	Certified Maintenance Planner (CMP)	November 10-14, 2022	30	3.0
LL			50	-
Total No. of CEL	's Earned as of TOR Issuance Date		70	3.0
Haward Technology (IACET), 2201 Coop with the ANSI/IACE Provider membersh Standard. Haward Technology Education Units (CI IACET is an interna	I's Earned as of TOR Issuance Date I's Earned as of TOR Issuance Date has been approved as an Authorized Provider by erative Way. Suite 600, Hemadon, VA 20171, USA. In obtain T 1-2013 Standard which is widely recognized as the s ip status, Haward Technology is authorized to offer 1 's courses meet the professional certification and of Uls) in accordance with the rules & regulations of the In tional authority that evaluates programs according to stin- of measurement in qualified courses of continuing education.	the International Association for Co ing this approval, Haward Technology tandard of good practice internationally ACET CEUs for programs that qualify continuing education requirements for ternational Association for Continuing	has demonstrated that it c As a result of their Au y under the ANSI/IACET participants seeking Co Education & Training (I	Training omplies thorized 1-2013 ntinuing ACET).



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Certificate Accreditations

Certificates are accredited by the following international accreditation organizations:-

<u>ACCREDITED</u>
<u>The International Accreditors for Continuing Education and Training</u>
<u>(IACET - USA)</u>

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.

• **BAC**

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 Fee

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.

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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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. Steve Magalios, CEng, PGDip (on-going), MSc, BSc, is a Senior Mechanical & Maintenance Engineer with almost 40 years of extensive On-shore/Offshore experience in the Oil & Gas, Construction, Refinery and Petrochemical industries. His expertise widely covers in the areas of Preventive & Predictive Maintenance, Maintenance Planning & Scheduling, Reliability Centered Maintenance, Applied Maintenance Management, Reliability Modelling, Reliability Techniques, Reliability Design Techniques, Advanced Root Causes Analysis & Techniques, Reliability Management, Pipeline Hot Tapping, Hot Tapping Equipment, Hot Tapping Operation, Welding Engineering, Fabrication

& Inspection, Welding Techniques, Practical Welding Technology, Welding Inspection, Welding & Machine Shop, Welding & Machining, Welding Types & Applications, Welding Safety, Welding Defects Analysis, TIG & Arc Welding, Shielded Metal Arc Welding, Gas Tungsten & Gas Metal Arc Welding, Welding Procedure Specifications & Qualifications (WPS & WPQ), Aluminium Welding, Safe Welding, International Welding Codes, Welding Procedure Specifications, Welding & Brazing, Welder Performance Qualification, Pipeline Operation & Maintenance, Pipeline Systems, Pipeline Design & Construction, Pipeline Repair Methods, Pipeline Engineering, Pipeline Integrity Management System (PIMS), Pipeline Pigging, Piping & Pipe Support Systems, Piping Systems & Process Equipment, Piping System Repair & Maintenance and Piping Integrity Management. Further, he is also well-versed in Computer Aided Design (CAD), Building & Road Design Skills, Civil Engineering Design, Structural Reliability Engineering, Road Construction & Maintenance, Concrete Structures & Building Rehabilitation, Reinforced Concrete Structures Protection, Geosynthetics & Ground Improvement Methods, Blueprint Reading & Interpretation, Blue Print Documentation, Mechanical Drawings, P&ID, Flow Diagram Symbols, Land Surveying & Property Evaluation, Cartographic Representation, Soil Classification, Cadastral Surveying & Boundary Definition, Project Engineering & Design, Construction Management, Project Planning & Execution, Site Management, Site Supervision, Effective Resource Management, Project Evaluation, FEED Management, EPC Projects Design, Project Completion & Workover, AutoCAD, STAAD-PRO, GIS, ArcInfo, ArcView, Autodesk Map and various programming languages such as FORTRAN, BASIC and AUTOLISP. Currently, he is the Chartered Professional Surveyor Engineer & Urban-Regional Planner wherein he is deeply involved in providing exact data, measurements and determining properly boundaries. He is also responsible in preparing and maintaining sketches, maps, reports and legal description of surveys.

During his career, Mr. Magalios has gained his expertise and thorough practical experience through challenging positions such as a Project Site Construction Manager, Supervision Head/Construction Manager, Construction Site Manager, Project Manager, Deputy PMS Manager, Head of the Public Project Inspection Field Team, Technical Consultant, Senior Consultant, Consultant/Lecturer, Construction Team Leader, Lead Pipeline Engineer, Project Construction Lead Supervising Engineer, Lead Site Engineer, Senior Site Engineer Lead Engineer, Senior Site Engineer, R.O.W. Coordinator, Site Representative, Supervision Head, Contractor, Client Site Representative and Acting Client Site Representative for international Companies such as the Public Gas Corporation, Penspen International Limited, Eptista Servicios de Ingeneria S.I., J/V ILF Pantec TH. Papaioannou & Co. - Emenergy Engineering, J/V Karaylannis S.A. - Intracom Constructions S.A., Ergaz Ltd., Alkyonis 7, Palaeo Faliro, Piraeus, Elpet Valkaniki S.A., Asprofos S.A., J/V Depa S.A. just to name a few.

Mr. Magalios is a Registered Chartered Engineer and has Master and Bachelor degrees in Surveying Engineering from the University of New Brunswick, Canada and the National Technical University of Athens, Greece, respectively. Further, he is currently enrolled for Postgraduate in Quality Assurance from the Hellenic Open University, Greece. He has further obtained a Level 4B Certificates in Project Management from the National & Kapodistrian University of Athens, Greece and Environmental Auditing from the Environmental Auditors Registration Association (EARA). Moreover, he is a Certified Instructor/Trainer, a Chartered Engineer of Technical Chamber of Greece and has delivered numerous trainings, workshops, seminars, courses and conferences internationally.



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Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, Stateof-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.

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, 04 th of February 2024
0730 – 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0830 - 0930	<i>Introduction to Maintenance Planning</i> <i>Integrated Maintenance & Production Management Partnership</i> • Definitions • <i>Why Plan, Coordinate & Schedule Maintenance Jobs?</i> • Objectives of Work <i>Preparation</i> • <i>Prerequisites</i> • <i>Understanding the Nature of Maintenance</i> <i>Activities & Organizing Accordingly</i> • <i>Organization by Work Type</i>
0930 - 0945	Break
0945 - 1045	Selling Planning, Coordination & Scheduling to Management & OperationsSelling 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
1045 - 1145	Where Planning Fits into Good Maintenance PracticesShould Work Preparation be a Separate and Distinct Function? • The AssignedCraftsman • 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
1200 - 1300	Planning PrinciplesSix Principles • The Planning Vision; The Mission • Planning Principle 1:Separate Department • Principle 2: Focus on Future Work • Principle 3:Component Level Files • Principle 4: Estimates Based on Planner Expertise •Principle 5: Recognize the Skill of the Crafts • Principle 6: Measure Performancewith Schedule Compliance



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1300 – 1420	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 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
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, 05 th of February 2024
	Wrench Time
0730 - 0930	Definition • Objectives • Formula • Qualifications • Ample Calculation •
	Observations •Management of Planners
0930 - 0945	Break
	Actual Hours to Planning Estimate
0945 – 1150	Definition • Objectives • Formula • Component Definitions • Actual Work
0943 - 1150	Order Hours • Planned Work Order Hours • Qualifications • Sample
	Calculation • Best in Class Target Value
	Planning Variance Index
1150 – 1215	Definition • Objectives • Formula • Component Definitions • Sample
	Calculation
1215 – 1230	Break
	Planner Productivity
1230 – 1330	Definition • Objectives • Formula • Sample Calculation • Sample #2 Using
	Job Plans
	Backlog Management: Ready Backlog
1330 - 1420	Definition • Objectives • Formula • Component Definition • Sample
	Calculation • Best in Class Target Value: 2 to 4 Weeks
	Recap
1420 - 1430	<i>Using this Course Overview, the Instructor(s) will Brief Participants about the</i>
	Topics that were Discussed Today and Advise Them of the Topics to be
	Discussed Tomorrow
1430	Lunch & End of Day Two

Day 3:	Tuesday, 06 th of February 2024
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



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AWS





1045 - 1145	The Planning Process (Micro-Planning) Steps of the Planning Process • The Planned Job Package
1145 – 1200	Break
1200 - 1420	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
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, 07 th of February 2024
	Detailed Planning Process-Materials, Tools & Equipment
	Planner/Scheduler Responsibilities to the Material Management Process •
0730 – 0930	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 •
1045-1145	The Labour Library • Development of Slotting Tables • Slotting Table
	Cataloguing • Job Estimating Worksheet • Coordination with Operations
1145 – 1200	Break
	Scheduling Maintenance Work
1200 - 1420	The Weekly Expectation • Scheduling Techniques • Instruction for Preparing
	Schedules • Completing the Scheduling Process
	Recap
1420 - 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 Four

Day 5:	Thursday, 08 th of February 2024
0730 - 0930	<i>Job Execution</i> <i>Three Important Functions</i> • <i>Daily Schedule Adjustment</i> • <i>Planner Support of</i> <i>Job Execution</i> • <i>The Morning Meeting</i>
0930 - 0945	Break
0945 - 1045	<i>Job Close Out & Follow Up</i> <i>Schedule Compliance</i> • <i>Reasons for Non-Compliance</i> • <i>Reason for Schedule</i> <i>Non-Compliance</i> • <i>Calculation of Schedule Compliance</i> • <i>Sample Calculation</i> • <i>Supplementary Metrics</i>



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1045 - 1215	Planner & Scheduler MetricsManaging Planning • Direct Measure of Planning Effectiveness • IndirectMeasures of Planning Effectiveness • The Follow-Up Critique • ActivitySampling • Using CMMS to Aid Planning and Scheduling
1215 – 1230	Break
1230 – 1300	Planning & Management of Projects Project Management Process • Phase One – Project Definition • Phase Two – Preliminary Engineering • Phase Three – Justification and Funding • 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	<i>Course Conclusion</i> <i>Using this Course Overview, the Instructor(s) will Brief Participants about the</i> <i>Course Topics that were Covered During the Course</i>
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".





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Course Coordinator

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