



COURSE OVERVIEW RE0230 Facilities and Asset Management

Course Title

Facilities and Asset Management

Course Date/Venue

Session 1: July 26-30, 2026/Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE

Session 2: October 25-29, 2026/Sur Meeting Room, Royal Tulip Muscat, Muscat, Oman

Course Reference

RE0230

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Description



This practical 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

When properly executed, Physical Asset Management can significantly impact an organization's bottom line by reducing maintenance costs, increasing the economic life of capital equipment, reducing company liability, increasing the reliability of systems and components, and reducing the number of systems and components.



This course will provide participants with the tools and methodologies to achieve maintenance excellence in their organization. The course has been designed to help managers care for their assets efficiently and effectively through sound and timely decision-making.



Further, the course will also discuss the ISO 55000 including its elements, structure and requirements for an asset management system; the benefits of adopting ISO 55000 and how it align with other management systems; the roadmap to achieve certification and subsequent business improvement; the various approaches including HAZOP and risk-based inspection; the total productive maintenance (TPM), people-centric maintenance and quality improvement; the methodologies covering asset management of projects, quantum leaps in process improvement and supplier partnering program (SPP); and the failure process and age versus reliability patterns.





During this interactive course, participants will learn to optimize human and asset performance by focusing on behavior and results; carryout balance scorecards, benchmarking and key performance indicators; identify the basic economics and the aspects of discounted cash flow used in capital equipment replacement analysis; apply present-value calculation and recognize the effects of inflation in the analysis; estimate the interest rate appropriate for discounting; calculate the equivalent annual cost (EAC) and minimize life cycle cost; recognize basic statistics and the problem with uncertainty; optimize maintenance and replacement decisions covering network system reliability and maintenance tasks; employ reliability centered maintenance (RCM); and optimize condition based maintenance decisions.

Course Objectives/Outcomes & Benefits for the Participants

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

- Apply a proper physical asset management system in accordance with the ISO 55000/55001 standards in order to achieve a maintenance excellence position
- Discuss ISO 55000 including its elements, structure and requirements for an asset management system
- Explain the benefits of adopting ISO 55000 and how it align with other management systems
- Illustrate roadmap to achieve certification and subsequent business improvement
- Manage risk and apply the various approaches including HAZOP and risk-based inspection
- Manage reliability through people, total productive maintenance (TPM), people-centric maintenance and quality improvement
- Optimize methodologies covering asset management of projects, quantum leaps in process improvement and supplier partnering program (SPP)
- Define failure and identify failure process and age versus reliability patterns
- Optimize RCM results through root cause failure analysis (RCFA) and life cycle decisions
- Optimize human and asset performance by focusing on behavior and results
- Carryout balance score cards, benchmarking and key performance indicators
- Discuss basic economics and the aspects of discounted cash flow used in capital equipment replacement analysis
- Apply present-value calculation and identify the effects of inflation in the analysis
- Estimate the interest rate appropriate for discounting, calculate the equivalent annual cost (EAC) and minimize life cycle cost
- Recognize basic statistics and the problem with uncertainty
- Optimize maintenance and replacement decisions covering network system reliability and maintenance tasks
- Employ reliability centered maintenance (RCM) and optimize condition based maintenance decisions



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 physical asset management for maintenance excellence for engineers, managers of plant operations, facility managers or maintenance professionals who are responsible for maintaining and managing the physical equipment assets of his plant as well as those who represent large facilities and plants from industries such as mining, oil and gas, pulp and paper, utilities, primary metals and heavy manufacturing. The course is a must for those in charge of implementing a physical asset management system in accordance with the ISO 55000/55001 standards.

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.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

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.




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: -

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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.

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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.





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

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Introduction to ISO 55000 Provides an Overview of the ISO 55000 Suite of International Standards
0930 – 0945	Break
0945 – 1100	Overview of ISO 55001 Elements • Structure • Requirements for an Asset Management System
1100 – 1230	Benefits of Adopting ISO 55000 The Business Case for ISO 55000 International Standards
1230 – 1245	Break
1245 – 1420	Achieving Certification Roadmap to Achieving Certification and Subsequent Business Improvement
1420 – 1430	Recap
1430	Lunch & End of Day One

Day 2

0730 – 0930	Managing Risk Risk and its Management – A Discussion of the Various Approaches Used, Including HAZOP and Risk-Based Inspection
0930 – 0945	Break
0945 – 1100	Managing Risk (cont'd) Risk and its Management – A Discussion of the Various Approaches Used, Including HAZOP and Risk-Based Inspection (cont'd)
1100 – 1230	Managing Reliability through People Total Productive Maintenance (TPM) – People-Centric Maintenance and Quality Improvement
1230 – 1245	Break
1245 – 1420	Managing Reliability through People (cont'd) Total Productive Maintenance (TPM) – People-Centric Maintenance and Quality Improvement (cont'd)
1420 – 1430	Recap
1430	Lunch & End of Day Two

Day 3

0730 – 0930	Optimizing Methodologies Asset Management of Projects
0930 – 0945	Break
0945 – 1100	Optimizing Methodologies (cont'd) Quantum Leaps in Process Improvement – The Ten Essential Requirements for DESIGN and RAM (Reliability, Availability & Maintainability) • Supplier Partnering Programme (SPP)



1100 – 1230	Optimizing Methodologies (cont'd) <i>Definition of Failure • The Failure Process • Age versus Reliability Patterns</i>
1230 – 1245	Break
1245 – 1420	Optimizing Methodologies (cont'd) <i>Root Cause Failure Analysis (RCFA): Optimizing RCM Results • Optimizing Life Cycle Decisions</i>
1420 – 1430	Recap
1430	Lunch & End of Day Three

Day 4

0730 – 0930	Optimizing Human and Asset Performance by Focusing on Behaviour and Results <i>Taking Stock of your Organization: Balanced Score Cards, Benchmarking and Key Performance Indicators</i>
0930 – 0945	Break
0945 – 1100	Basic Economics <i>Aspects of Discounted Cash Flow used in Capital Equipment Replacement Analysis • Present-Value Calculations • The Effects of Inflation in the Analysis • Estimating the Interest Rate Appropriate for Discounting</i>
1100 – 1230	Basic Economics (cont'd) <i>Calculating the Equivalent Annual Cost (EAC) • Minimizing Life Cycle Cost</i>
1230 – 1245	Break
1245 – 1420	Basic Statistics <i>The Problem with Uncertainty • Dealing with Censored Data – Weibull Analysis, etc. • Where do you Place your Maintenance Efforts?</i>
1420 – 1430	Recap
1430	Lunch & End of Day Four

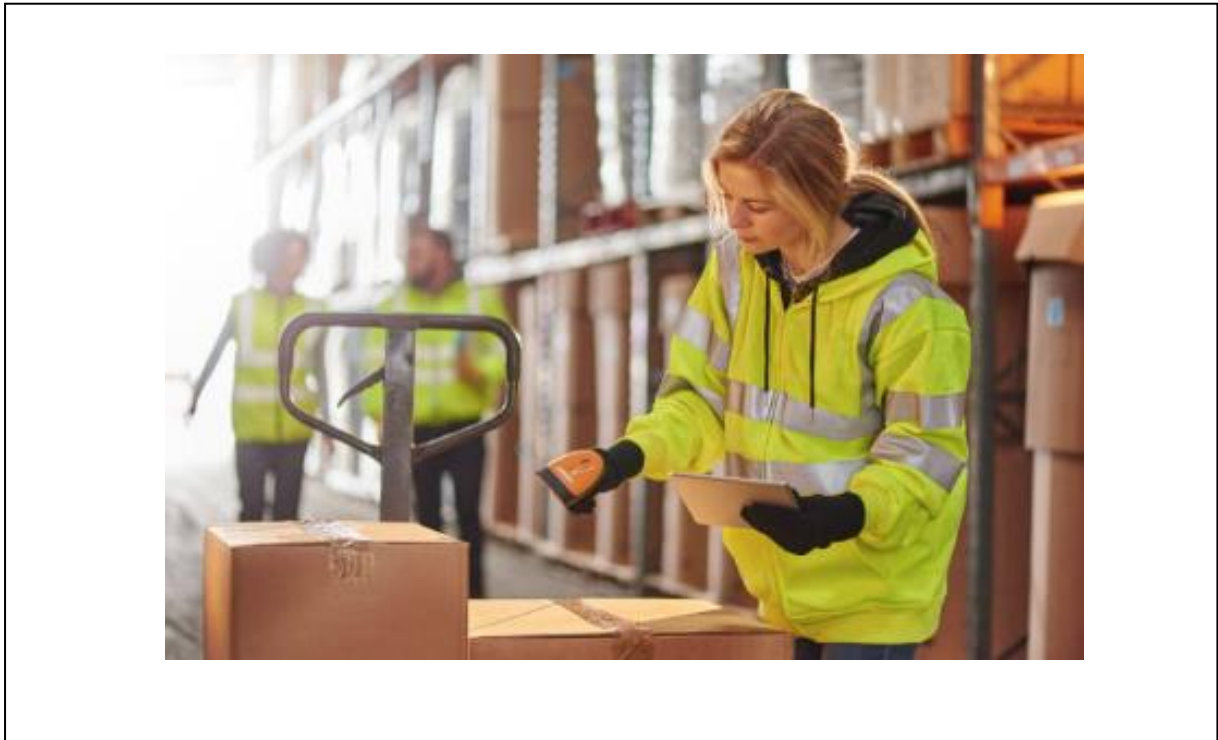
Day 5

0730 – 0930	Optimizing Maintenance and Replacement Decisions <i>Network System Reliability • Maintenance Tasks</i>
0930 – 0945	Break
0945 – 1100	Reliability Centered Maintenance (RCM) <i>RCM – The Analytical Decision Logic • Is RCM the Right Tool for you? • What can RCM Achieve? • What does it take to Implement RCM? • Reasons for the Failure of RCM • Capability Driven RCM</i>
1100 – 1200	Group Exercise <i>An Opportunity to Apply the Theory of RCM to Practical Items of Plant</i>
1200 – 1215	Break
1215 – 1345	Optimizing Condition Based Maintenance Decisions <i>Optimizing Time Based Maintenance • Getting the Most Out of your Equipment Before Repair Time</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



Practical Sessions

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



Course Coordinator

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