COURSE OVERVIEW RE0670
Asset Planning & Management

Course Title
Asset Planning & Management

Course Date/Venue
May 17-21, 2026/Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE or Online Virtual Training

Course Reference
RE0670

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.

This course is designed to provide participants with a detailed and up-to-date overview of Asset Planning & Management. It covers the principles of asset management, hydrocarbon infrastructure assets and asset lifecycle concept; the asset register and data structure, stakeholders in asset management and strategic asset planning; the asset criticality analysis, life cycle costing (LCC), condition assessment techniques and risk -based asset management (RBAM); the asset management software and tools and maintenance planning and scheduling; and the storage asset management (tanks and terminals) and pipeline asset management.

During this interactive course, participants will learn the pumping and compressor station assets; the marine and port asset management, rail and truck loading infrastructure and safety and environmental asset controls; the key performance indicators (KPIs) for assets, reliability -centered maintenance (RCM) and asset performance optimization; the digital transformation in asset management, asset replacement and upgrade decision tools and regulatory and compliance management; the asset management strategy development, infrastructure risk management and emergency response and asset recovery; and the asset handover and decommissioning and continuous improvement framework.

Course Objectives

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

- Apply and gain an in-depth knowledge on asset planning and management
- Discuss the principles of asset management, hydrocarbon infrastructure assets and asset lifecycle concept
- Carryout asset register and data structure, stakeholders in asset management and strategic asset planning
- Employ asset criticality analysis, life cycle costing (LCC), condition assessment techniques and risk -based asset management (RBAM)
- Identify asset management software and tools and apply maintenance planning and scheduling, storage asset management (tanks and terminals) and pipeline asset management
- Recognize pumping and compressor station assets and apply marine and port asset management, rail and truck loading infrastructure and safety and environmental asset controls
- Carryout key performance indicators (KPIs) for assets, reliability -centered maintenance (RCM) and asset performance optimization
- Employ digital transformation in asset management, asset replacement and upgrade decision tools and regulatory and compliance management
- Implement asset management strategy development, infrastructure risk management and emergency response and asset recovery
- Appy asset handover and decommissioning and continuous improvement framework

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 asset planning and management for asset managers and asset engineers, maintenance managers, supervisors and planners, operations managers and operations personnel, reliability engineers and technical support staff, project engineers and engineering professionals, facility managers and plant engineers and those who involved in long-term planning, asset lifecycle management, or cost optimization in industrial facilities

Course Fee

F2F Classroom: **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.

Online Virtual: **US$ 2,750** per Delegate + **VAT**.

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**.

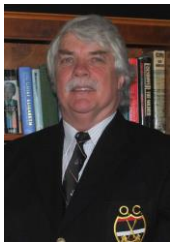
  Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international 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.

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:



Mr. Den Bazley, PE, BSc, is a **Senior Mechanical Maintenance Engineer** with over **25 years** of industrial experience in **Oil**, **Gas**, **Refinery**, **Petrochemical**, **Power** and **Utilities** industries. His wide expertise includes **Condition Based Monitoring**, **Piping System**, **Process Equipment**, **Mechanical Integrity**, **Maintenance Management**, **Reliability Management**, **Reliability Centred Maintenance** (**RCM**), Total Plant Maintenance (**TPM**) and Reliability-Availability-Maintainability (**RAM**), **Engineering Drawings, Codes & Standards**, **P&ID Reading, Interpretation & Developing**. His experience covers **Design**, **Construction** and **Maintenance** of **Storage Tank**, **Hydraulic Control Valves**, **rotating and static equipment** including **Safety Relief Valves**, **Boilers**, **Pressure Vessels**, **Tanks**, **Heat Exchangers**, **Bearings**, **Compressors**, **Pumps**, **Pipelines**, **Motors**, **Turbines**, **Gears**, **Lubrication Technology** and **Mechanical Seals**. Further, he has experience in Waste Water Treatment, **Water Treatment**, **Welding**, **NDT**, Vehicle Fleet and Budgeting & Cost Control. He is well-versed in **CMMS** and various International Standards including ISO 14001.

During his career life, Mr. Bazley has gained his practical and field experience through his various significant positions and dedication as the **Engineering Manager**, **Maintenance Manager**, **Construction Manager**, **Project Engineer**, **Mechanical Engineer**, **Mechanical Services Superintendent**, **Quality Coordinator** and **Planning Manager** for numerous international companies like **ESSO**, **FFS Refinery**, Dorbyl Heavy Engineering (VECOR), Vandenbergh Foods (Unilever), **Engen Petroleum**, Royle Trust and **Pepsi-Cola**.

Mr. Bazley is a **Registered Professional Engineer** and has a **Bachelor** degree in **Mechanical Engineering**. Further, he is a **Certified Engineer** (Government Certificate of Competency GCC Mechanical Pretoria), a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership and Management** (**ILM**), an active member of the **Institute of Mechanical Engineers** (**IMechE**) and has delivered numerous trainings, courses, seminars and workshops 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.

Virtual Training (If Applicable)

If this course is delivered online as a Virtual Training, the following limitations will be applicable:-

Certificates	Only soft copy certificates will be issued to participants through Haward's Portal. This includes Wallet Card Certificates if applicable
Training Materials	Only soft copy Training Materials (PDF format) will be issued to participant through the Virtual Training Platform
Training Methodology	80% of the program will be theory and 20% will be practical sessions, exercises, case studies, simulators or videos
Training Program	The training will be for 4 hours per day starting at 0930 and ending at 1330
H-STK Smart Training Kit	Not Applicable
Hands-on Practical Workshops	Not Applicable
Site Visit	Not Applicable
Simulators	Only software simulators will be used in the virtual courses. Hardware simulators are not applicable and will not be used in Virtual Training

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, 17th of May 2026***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Principles of Asset Management*** *Definition and Objectives of Asset Management • ISO 55000 Family Overview • Difference Between Asset Management versus Maintenance • Asset Value, Performance and Risk Balance*
0930 – 0945	*Break*
0945 – 1030	***Hydrocarbon Infrastructure Assets Overview*** *Storage Assets: Tanks, Spheres, Caverns • Transportation Assets: Pipelines, Rail, Marine • Distribution Assets: Terminals, Depots, Stations • Fixed versus Mobile Assets*
1030 – 1130	***Asset Lifecycle Concept*** *Planning and Design Phase • Acquisition and Construction • Operation and Maintenance • Renewal and Disposal*

1130 – 1215	***Asset Register & Data Structure*** *Asset Hierarchy Classification • Tagging and Numbering Systems • Asset Criticality Levels • Digital Asset Database Design*
1215 – 1230	*Break*
1230 – 1330	***Stakeholders in Asset Management*** *Asset Owner versus Operator Responsibilities • Engineers, Planners and Maintenance Teams • Regulators and HSE Authorities • Communities and Third-Party Users*
1330 – 1420	***Strategic Asset Planning*** *Long-Term Infrastructure Requirements • Capacity and Demand Forecasting • Investment Planning and Prioritization • Alignment with Corporate Strategy*
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, 18th of May 2026

0730 – 0830	***Asset Criticality Analysis*** *Risk-Based Criticality Ranking • Business Consequence of Failure • Safety and Environmental Impact • Production and Revenue Effect*
0830 – 0930	***Life Cycle Costing (LCC)*** *CAPEX and OPEX Identification • Long-Term Cost Modeling • Replacement versus Repair Analysis • Financial Optimization*
0930 – 0945	*Break*
0945 – 1100	***Condition Assessment Techniques*** *Visual Inspection Techniques • Non-Destructive Testing (NDT) • Structural Integrity Assessment • Degradation Analysis*
1100 – 1215	***Risk-Based Asset Management (RBAM)*** *Probability of Failure (PoF) • Consequence of Failure (CoF) • Risk Matrices and Acceptance Levels • Risk Reduction Strategies*
1215 – 1230	*Break*
1230 – 1330	***Asset Management Software & Tools*** *CMMS and EAM Systems (SAP, Maximo) • GIS-Based Asset Tracking • Digital Twins • Predictive Analytics*
1330 – 1420	***Maintenance Planning & Scheduling*** *Preventive Maintenance Strategies • Predictive Maintenance Techniques • Shutdown and Turnaround Planning • Resource and Spare Parts Planning*
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, 19th of May 2026

0730 – 0830	***Storage Asset Management (Tanks & Terminals)*** *Tank Inspection Schedules (API 653) • Corrosion Mapping and Thickness Monitoring • Leak Detection Systems • Secondary Containment Management*
0830 – 0930	***Pipeline Asset Management*** *Inline Inspection (Smart Pigging) • Cathodic Protection Systems • Coating and Corrosion Control • Pipeline Integrity Management (PIMS)*

0930 – 0945	*Break*
0945 – 1100	***Pumping & Compressor Station Assets*** *Equipment Condition Monitoring • Vibration and Thermal Analysis • Lubrication and Reliability Programs • Spare Parts Strategy*
1100 – 1215	***Marine & Port Asset Management*** *Loading Arms and Jetties • Mooring and Docking Structures • Corrosion in Marine Environments • Structural Fatigue Analysis*
1215 – 1230	*Break*
1230 – 1330	***Rail & Truck Loading Infrastructure*** *Rack and Gantry Systems • Metering and Safety Systems • Structural Inspection and Upgrades • Operational Risk Assessment*
1330 – 1420	***Safety & Environmental Asset Controls*** *Spill Containment Systems • Fire Protection Systems • Gas Detection and Alarms • Environmental Monitoring Assets*
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, 20th of May 2026***

0730 – 0830	***Key Performance Indicators (KPIs) for Assets*** *Asset Availability • Mean Time Between Failures (MTBF) • Mean Time to Repair (MTTR) • Asset Reliability Indices*
0830 – 0930	***Reliability-Centered Maintenance (RCM)*** *Function-Based Asset Analysis • Failure Mode Analysis (FMEA) • Maintenance Task Selection • Cost versus Risk Optimization*
0930 – 0945	*Break*
0945 – 1100	***Asset Performance Optimization*** *Bottleneck Identification • Asset Utilization Improvement • Flow Rate and Capacity Optimization • Energy Efficiency Enhancement*
1100 – 1215	***Digital Transformation in Asset Management*** *IoT and Smart Sensors • AI and Predictive Analytics • Cloud-Based Asset Databases • Remote Monitoring Technology*
1215 – 1230	*Break*
1230 – 1330	***Asset Replacement & Upgrade Decision Tools*** *Asset Obsolescence Analysis • Technology Upgrade Planning • Economic Justification Tools • Replacement Prioritization*
1330 – 1420	***Regulatory & Compliance Management*** *API, ISO, ASME Compliance • Environmental Laws and Reporting • Safety Inspections and Audits • Compliance Documentation*
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, 21st of May 2026***
0730 – 0830	***Asset Management Strategy Development*** *Asset Policy Creation • Objectives and Targets • Governance Structures • Performance Monitoring*
0830 – 0930	***Infrastructure Risk Management*** *Natural Hazards (Earthquake, Flood) • Human & Operational Errors • Sabotage and Theft Risks • Security and Resilience Planning*
0930 – 0945	*Break*
0945 – 1100	***Emergency Response & Asset Recovery*** *Incident Response Planning • Contingency Assets • Disaster Recovery Strategies • Asset Restoration Procedures*
1100 – 1230	***Asset Handover & Decommissioning*** *End-of-Life Evaluation • Environmental Remediation • Decommissioning Planning • Asset Disposal Process*
1230 – 1245	*Break*
1245 – 1345	***Continuous Improvement Frameworks*** *PDCA and Kaizen Methods • Asset Performance Feedback Loops • Lessons Learned System • Benchmarking Practices*
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*

Practical Sessions

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

Course Coordinator

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