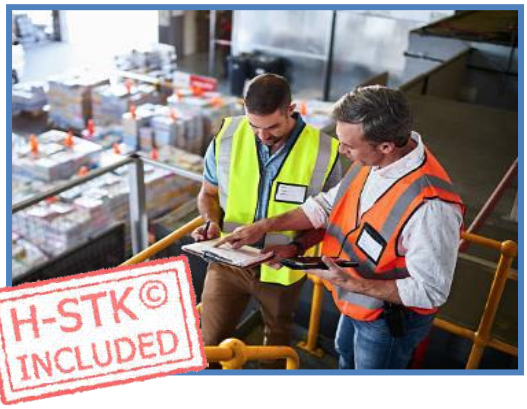
COURSE OVERVIEW TM0259
Asset Management Strategies

Course Title
Asset Management Strategies

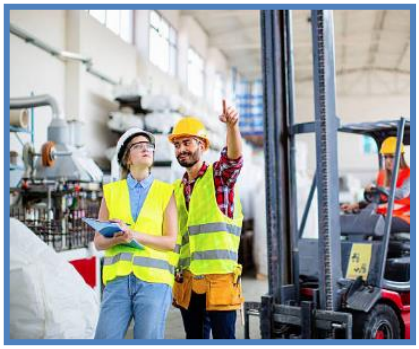


Course Date/Venue
Session 1: January 12-16, 2025/Business Meeting, Crowne Plaza Al Khobar, Al Khobar, KSA
Session 2: December 07-11, 2025/Business Meeting, Crowne Plaza Al Khobar, Al Khobar, KSA

Course Reference
TM0259

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

Course Description



This practical and highly-interactive course includes real-life case studies 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 Management Strategies. It covers the fundamentals of asset management and development of an asset management strategy by identifying asset priorities and establishing asset management objectives; the asset management policy and governance; the risk mitigation strategies and integrating risk management in asset planning; the portfolio management, asset prioritization techniques and optimizing portfolio performance; and the stakeholder and performance engagement in asset management, data collection methods and data analysis techniques.

Further, the course will also discuss the asset management information systems (AMIS) and the role of technology in asset management; the condition monitoring, predictive maintenance techniques, data-driven insights for maintenance planning and predictive analytics; the data quality and governance in asset management, benchmarking approaches and the results for continuous improvement; and the asset lifecycle management, maintenance management strategies, reliability-centered maintenance (RCM), total productive maintenance (TPM) and failure mode and effects analysis (FMEA).

During this interactive course, participants will learn the maintenance optimization techniques, asset valuation matters and the asset depreciation calculation; the cost-benefit analysis, assessing the financial impact of asset decisions, justifying asset investments, managing costs for asset maintenance and replacement; developing an asset management budget and forecasting, allocating funds for asset maintenance and monitoring and adjusting budgets; the capital planning process, asset replacement, asset lifecycle cost optimization and sustainability in asset management; the investment and financial planning for asset management, strategic asset optimization and digital transformation in asset management; building asset resilience, identifying and managing risks and contingency planning, risk mitigation and integrating resilience into asset management; and the change management, continuous improvement, innovation in asset management, regular asset management reviews and asset performance and ROI evaluation.

Course Objectives

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

- Apply and gain an in-depth knowledge on asset management strategies
- Discus the fundamentals of asset management and develop an asset management strategy by identifying asset priorities and establishing asset management objectives
- Explain asset management policy and governance, apply risk mitigation strategies and integrate risk management in asset planning
- Carryout portfolio management, asset prioritization techniques and optimizing portfolio performance
- Apply stakeholder and performance engagement in asset management, data collection methods and data analysis techniques
- Define asset management information systems (AMIS) and the role of technology in asset management
- Employ condition monitoring, predictive maintenance techniques, data-driven insights for maintenance planning and predictive analytics
- Apply data quality and governance in asset management, benchmarking approaches and analyzing results for continuous improvement
- Illustrate asset lifecycle management, maintenance management strategies, reliability-centered maintenance (RCM), total productive maintenance (TPM) and failure mode and effects analysis (FMEA)
- Implement maintenance optimization techniques, asset valuation methods and the asset depreciation calculation
- Conduct a cost-benefit analysis, assess the financial impact of asset decisions, justify asset investments, manage costs for asset maintenance and replacement
- Develop an asset management budget and forecasting, allocate funds for asset maintenance and monitor and adjust budgets
- Apply capital planning process, asset replacement, asset lifecycle cost optimization and sustainability in asset management

- Carryout investment and financial planning for asset management, strategic asset optimization and digital transformation in asset management
- Build asset resilience, identify and manage risks and apply contingency planning, risk mitigation and integrating resilience into asset management
- Employ change management, continuous improvement, innovation in asset management, regular asset management reviews and asset performance and ROI evaluation

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 management strategies for asset managers, financial analysts, investment advisors, institutional investors, wealth managers, real estate investors, CFOs and finance executives, risk managers, private investors, consultants and advisors.

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$ 7,000 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

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

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 center, Haward Technology meets all of the international higher education criteria and standards set by BAC.

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. Andrew Ladwig is a **Senior Process & Mechanical Engineer** with over **25 years** of extensive experience within the **Oil & Gas**, **Refinery**, **Petrochemical & Power** industries. His expertise widely covers in the areas of **Ammonia Manufacturing & Process Troubleshooting**, **Distillation Towers**, **Crude Oil Distillation**, **Fundamentals of Distillation** for Engineers, **Distillation** Operation and Troubleshooting, **Advanced Distillation** Troubleshooting, **Distillation** Technology, Vacuum **Distillation**, **Ammonia Storage & Loading** Systems, **Ammonia Plant** Operation, Troubleshooting & Optimization, **Ammonia Recovery**, **Ammonia Plant Safety**, Hazard of **Ammonia Handling**, Storage & Shipping, **Operational Excellence** in **Ammonia Plants**, **Fertilizer Storage** Management (Ammonia & Urea), **Fertilizer Manufacturing** Process Technology, **Sulphur Recovery**, Phenol Recovery & Extraction, **Wax Sweating & Blending**, **Petrochemical & Fertilizer** Plants, **Nitrogen Fertilizer** Production, **Petroleum Industry Process** Engineering, **Refining Process & Petroleum Products**, **Refinery Planning & Economics**, Safe **Refinery Operations**, **Hydrotreating & Hydro-processing**, **Separators** in **Oil & Gas** Industry, **Gas Testing & Energy** Isolations, Gas Liquor Separation, **Industrial Liquid Mixing**, **Wax Bleachers**, **Extractors**, **Fractionation**, Operation & Control of **Distillation**, Process of **Crude ATM & Vacuum Distillation** Unit, **Water Purification**, **Water Transport** & Distribution, **Steam & Electricity**, **Flame Arrestors**, **Coal Processing**, **Environmental Emission Control**, R&D of **Wax Blending**, **Wax** Molding/Slabbing, **Industrial Drying**, Principles, Selection & Design, Certified **Process Plant** Operations, Control & Troubleshooting, **Operator** Responsibilities, **Storage Tanks Operations** & Measurements, **Tank Design**, Construction, Inspection & Maintenance, **Atmospheric Tanks**, **Process Plant** Troubleshooting & Engineering Problem Solving, **Process Plant Performance**, Efficiency & Optimization, Continuous Improvement & Benchmarking, **Process Troubleshooting** Techniques, Oil & Gas Operation/Introduction to **Surface Facilities**, **Pressure Vessel** Operation, **Process Equipment** Performance & Troubleshooting, **Plant Startup & Shutdown**, **Startup & Shutdown** the Plant While Handling Abnormal Conditions, **Flare & Relief** System, **Process Gas Plant** Start-up, Commissioning & Problem Solving, **Process Liquid** and **Process Handling & Measuring** Equipment. Further, he is also well-versed in **Compressors & Turbines** Operation, Maintenance & Troubleshooting, **Heat Exchanger** Overhaul & Testing Techniques, Balancing of **Rotating Machinery** (**BRM**), **Pipe Stress** Analysis, **Valves & Actuators** Technology, Inspect & Maintain **Safeguarding Vent & Relief System**, Certified Inspectors for **Vehicle & Equipment**, Optimizing **Equipment Maintenance** & Replacement Decisions, Certified Maintenance Planner (**CMP**), Certified Planning and Scheduling Professional (**AACE-PSP**), **Material Cataloguing**, Specifications, Handling & Storage, **Steam Trap** Design, Operation, Maintenance & Troubleshooting, **Steam Trapping & Control**, **Column**, **Pump** Technology, **Pump** Selection & Installation, **Centrifugal Pumps** Troubleshooting, **Pumps** Design, Selection & Operation, **Pump & Exchangers**, Troubleshooting & Design, **Rotating Equipment** Operation & Troubleshooting, **Control & ESD** System, **Detailed Engineering Drawings**, Codes & Standards, **Budget** Preparation, Allocation & Cost Control, Root Cause Analysis (**RCA**), **Production Optimization**, Permit to Work (**PTW**), Project Engineering, **Data** Analysis, **Process Hazard** Analysis (**PHA**), **HAZOP** Study, Sampling & Analysis, **Training** Analysis, **Job Analysis** Techniques, Storage & Handling of **Toxic Chemicals & Hazardous Materials**, **Hazardous Material** Classification & Storage/Disposal, **Dangerous Goods**, Environmental Management System (**EMS**), Supply Chain, Purchasing, Procurement, **Logistics** Management & **Transport** & **Warehousing** & **Inventory**, **Risk** Monitoring Authorized Gas Tester (**AGT**), Confined Space Entry (**CSE**), Personal Protective Equipment (**PPE**), Fire & Gas, First Aid and Occupational Health & Safety.

During his career life, Mr. Ladwig has gained his practical experience through his various significant positions and dedication as the **Mechanical Engineer**, **Project Engineer**, **Reliability & Maintenance Engineer**, **Maintenance Support Engineer**, **Process Engineer**, **HSE Supervisor**, **Warehouse Manager**, **Quality Manager**, **Business Analyst**, **Senior Process Controller**, **Process Controller**, **Safety Officer**, **Mechanical Technician**, **Senior Lecturer** and **Senior Consultant/Trainer** for various companies such as the Sasol Ltd., Sasol Wax, Sasol Synfuels, just to name a few.

Mr. Ladwig has a **Bachelor's** degree in **Chemical Engineering** and a **Diploma** in **Mechanical Engineering**. Further, he is a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**) and has delivered various trainings, workshops, seminars, courses 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 workshop 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	***Fundamentals of Asset Management*** *Definition and Scope of Asset Management • Key Components and Processes • Lifecycle Approach in Asset Management • Asset Value and Business Impact*
0930 – 0945	*Break*
0945 – 1030	***Developing an Asset Management Strategy*** *Strategic Alignment with Organizational Goals • Identifying Asset Priorities • Establishing Asset Management Objectives • Framework for Strategy Development*
1030 – 1130	***Asset Management Policy & Governance*** *Purpose and Significance of Policy in Asset Management • Governance Structure and Roles • Policy Formulation and Approval Process • Alignment with Regulatory Requirements*
1130 – 1215	***Asset Risk Management*** *Types of Risks in Asset Management • Risk Assessment Methodologies • Risk Mitigation Strategies • Integration of Risk Management in Asset Planning*
1215 – 1230	*Break*
1230 – 1330	***Asset Portfolio Management*** *Defining Asset Portfolio and Asset Classes • Portfolio Management Objectives • Asset Prioritization Techniques • Optimizing Portfolio Performance*
1330 – 1420	***Stakeholder Engagement in Asset Management*** *Identifying Key Stakeholders • Communication Strategies • Managing Stakeholder Expectations • Benefits of Stakeholder Involvement*
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

0730 – 0830	***Performance Management in Asset Management*** *Performance Measurement and KPIs • Setting Performance Targets • Monitoring and Reporting Performance • Performance Improvement Strategies*
0830 – 0930	***Asset Data Collection & Analysis*** *Types of Asset Data and Data Sources • Methods for Data Collection • Data Analysis Techniques • Leveraging Data for Decision-Making*
0930 – 0945	*Break*
0945 – 1100	***Asset Information Systems & Technologies*** *Overview of Asset Management Information Systems (AMIS) • Role of Technology in Asset Management • Choosing the Right Asset Management Software • Integrating AMIS with Other Systems*
1100 – 1215	***Condition Monitoring & Predictive Analytics*** *Importance of Condition Monitoring • Predictive Maintenance Techniques • Data-Driven Insights for Maintenance Planning • Benefits of Predictive Analytics*

1215 – 1230	*Break*
1230 – 1330	***Data Quality & Governance in Asset Management*** *Defining Data Quality Standards • Data Governance Frameworks • Ensuring Data Accuracy and Completeness • Challenges in Data Management*
1330 – 1420	***Benchmarking & Performance Comparison*** *Purpose of Benchmarking in Asset Management • Selecting Benchmarking Metrics • Internal and External Benchmarking Approaches • Analyzing Results for Continuous Improvement*
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

0730 – 0830	***Asset Lifecycle Management*** *Stages of the Asset Lifecycle • Importance of Each Lifecycle Stage • Lifecycle Cost Analysis • Strategies for Lifecycle Extension*
0830 – 0930	***Maintenance Management Strategies*** *Types of Maintenance Strategies (Corrective, Preventive, Predictive) • Benefits and Limitations of Each Approach • Selecting an Appropriate Maintenance Strategy • Implementing Maintenance Best Practices*
0930 – 0945	*Break*
0945 – 1100	***Reliability-Centered Maintenance (RCM)*** *Principles of RCM • Identifying Critical Assets for RCM • Steps in the RCM Process • Benefits of RCM in Asset Management*
1100 – 1215	***Total Productive Maintenance (TPM)*** *Introduction to TPM and its Goals • Pillars of TPM (e.g., Autonomous Maintenance, Continuous Improvement) • TPM Implementation Process • Measuring TPM Effectiveness*
1215 – 1230	*Break*
1230 – 1330	***Failure Mode & Effects Analysis (FMEA)*** *Understanding FMEA and its Applications • Steps in Conducting FMEA • Identifying Potential Failure Modes • Developing Action Plans Based on FMEA Results*
1330 – 1420	***Maintenance Optimization Techniques*** *Principles of Maintenance Optimization • Use of Tools Like Reliability Centered Maintenance (RCM) • Predictive Maintenance with Analytics • Condition-Based and Risk-Based Maintenance*
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

0730 – 0830	***Asset Valuation & Depreciation*** *Methods of Asset Valuation • Calculating Asset Depreciation • Impact of Depreciation on Financial Statements • Asset Impairment and Write-Off*
0830 – 0930	***Cost-Benefit Analysis in Asset Management*** *Conducting a Cost-Benefit Analysis • Assessing the Financial Impact of Asset Decisions • Justifying Asset Investments • Managing Costs for Asset Maintenance and Replacement*
0930 – 0945	*Break*

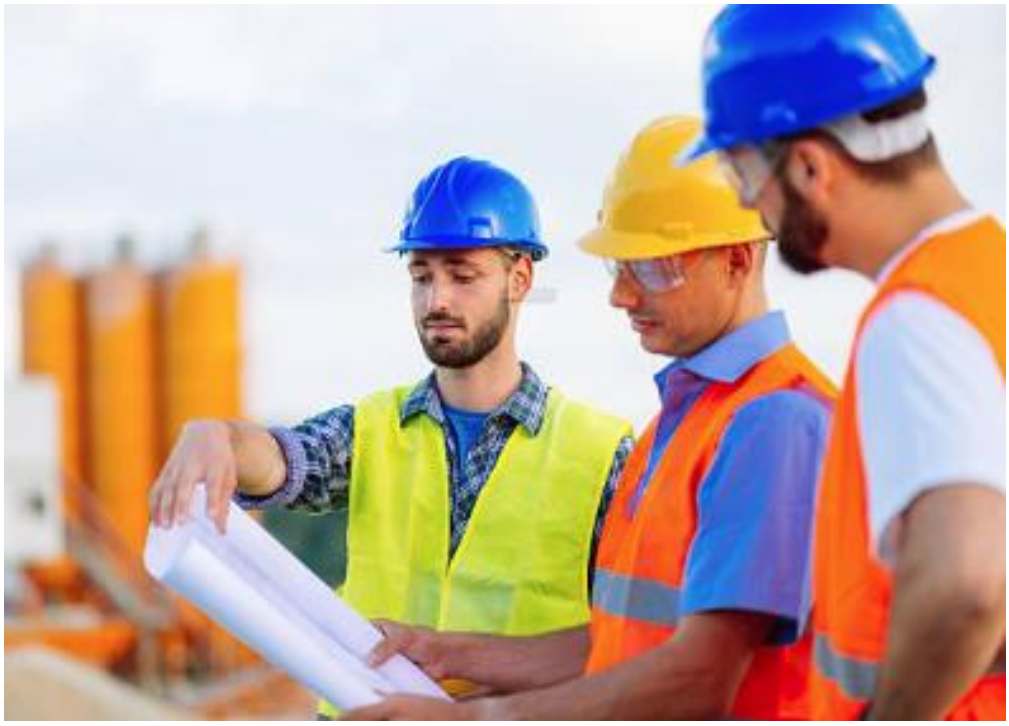
0945 – 1100	***Budgeting & Forecasting for Asset Management*** *Developing an Asset Management Budget • Forecasting Future Asset Needs • Allocating Funds for Asset Maintenance • Monitoring and Adjusting Budgets*
1100 – 1215	***Capital Planning & Asset Replacement*** *Capital Planning Process • Criteria for Asset Replacement • Asset Lifecycle Cost Optimization • Balancing Capital and Operational Expenses*
1215 – 1230	*Break*
1230 – 1330	***Sustainability in Asset Management*** *Environmental Impact of Assets • Sustainable Asset Management Practices • Reducing Asset Lifecycle Environmental Footprint • Compliance with Sustainability Standards*
1330 – 1420	***Investment & Financial Planning for Asset Management*** *Financial Planning for Asset Acquisition • Evaluating Investment Opportunities • Capital Allocation for Asset Enhancement • Return on Investment (ROI) Assessment*
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

0730 – 0830	***Asset Optimization*** *Overview of Asset Optimization • Asset Performance Indicators • Strategies for Maximizing Asset Value • Case Studies in Asset Optimization*
0830 – 0930	***Digital Transformation in Asset Management*** *Role of Digital Transformation • Emerging Technologies (IoT, AI, ML) • Digital Twins and Smart Assets • Enhancing Asset Management through Digitalization*
0930 – 0945	*Break*
0945 – 1030	***Asset Risk & Resilience Management*** *Building Asset Resilience • Identifying and Managing Risks • Contingency Planning and Risk Mitigation • Integrating Resilience into Asset Management*
1030 – 1115	***Change Management in Asset Management*** *Principles of Change Management • Managing Asset-Related Organizational Changes • Engaging Employees in Change Processes • Evaluating the Impact of Change*
1115 – 1215	***Continuous Improvement & Innovation*** *Importance of Continuous Improvement • Tools and Techniques for Improvement (Lean, Six Sigma) • Encouraging Innovation in Asset Management • Measuring Improvement Outcomes*
1215 – 1230	*Break*
1230 - 1345	***Performance Evaluation & Review*** *Conducting Regular Asset Management Reviews • Evaluating Asset Performance and ROI • Identifying Areas for Improvement • Planning for Future Asset Management Needs*
1345 – 1400	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1315 – 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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