COURSE OVERVIEW GE0628
Facility & Energy Management

Course Title
Facility & Energy Management

Course Date/Venue
Session 1: June 15-19, 2025/Tamra Meeting Room, Al Bandar Rotana Creek, Dubai UAE
Session 2: October 13-17, 2025/Glasshouse Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference
GE0628

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

Course Objectives

This hands-on, 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 facility & energy management. It covers the planning and operation of energy related to production and consumption units; the objective of energy management including resource conservation, climate protection and cost savings as well as users and access to energy needed; the link between environmental, production, logistics management and other business functions; and the economics and environmental objectives, organizational integration, operating costs and cost reduction without compromising work processes.

During this interactive course, participants will learn the availability, service life of equipment and the ease of use; the economic, ecological, risk-based and quality-based targets; the energy external sources, core logistics tasks and requirements; the logistics objectives and environmental strategies; the energy procurement decisions; the production's energy consumption within an organization and the importance of production planning and control; and the energy management and the need for information technology (IT), energy strategy and politics, ergonomics and ethical strategy.

Course Objectives

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

- Apply and gain an in-depth knowledge on facility and energy management
- Discuss planning and operation of energy related to production and consumption units
- Determine the objective of energy management including resource conservation, climate protection and cost savings as well as users and access to energy needed
- Establish the link between environmental, production and logistics management and other business functions
- Explain economics and environmental objectives, organizational integration, operating costs and cost reduction without compromising work processes
- Determine the availability, service life of equipment and the ease of use
- Define economic, ecological, risk-based and quality-based targets
- Recognize energy external sources, core logistics tasks and requirements as well as logistics objectives and environmental strategies
- Employ energy procurement decisions as well as determine production's energy consumption within an organization and the importance of production planning and control
- Explain why maintenance is essential to support the energy management and the need for information technology (IT), energy strategy and politics, ergonomics and ethical strategy

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 is intended for facility managers, office managers, facility engineers, facility admin officers, building owners, contract administration professionals and those who are interested/involved in implementing proper facilities management in their buildings and site areas. Cutting costs in a safe, environmental manner while at the same time not being detrimental to people occupancy comfort will play a fundamental part of any facilities management role.

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.

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: -

- 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.

- 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 Pipeline & Mechanical Maintenance Engineer** with over **30 years** of industrial experience in Management Practices, **Energy** Efficiency in Commercial Buildings, **Energy** Management Systems (EMS) Implementation, Building **Energy** Management Systems (BEMS), Utility Management & **Energy** Cost Reduction, Smart Metering & Data-Driven **Energy Management**, Lighting Systems & **Energy** Efficiency & **Energy** Procurement, **Energy** Performance Monitoring & Reporting, **Energy** Performance Contracting in **Facility Management**, **Energy** Management in **Facilities**, Advanced **Energy** Analytics for **Facility Managers**, **Facility** Operations & Maintenance Management, Renewable Energy Solutions for **Facilities**, Sustainable **Facility**, Risk Management & Power & Cooling Systems Optimization. Further he is also well verse **Oil**, **Gas**, **Refinery**, **Petrochemical**, **Power** and **Utilities** industries. His wide expertise includes **Heat Exchanger** Overhaul & Testing Techniques, **Heat Exchanger** Operation, Maintenance & Repair, **Heat Exchanger & Cooling Towers**, **Pipeline & Piping Design**, **Process Piping** Design & Mechanical Integrity, **Piping & Pipeline** Maintenance & Repair, **Pipeline** Operation & Maintenance, **Pigging**, **Integrity** Assessment, Layout of **Piping Systems & Process Equipment**, **Pipe Work** Design & Fabrication, **Mechanical Piping** Systems Design & Specification, **Piping & Storage** Facilities, **Fitness for Service** for Petrochemical Plants, **Pipeline** Equipment Operation, **Pipeline** Rules of Thumb, **Welding** Technology, **Welding & Fabrication**, **Welding & Brazing**, **Mechanical Integrity & Reliability**, Advanced Integrity Management, **Root Cause** Analysis on Technical Failure Investigation Pertaining to Asset Integrity/Engineering, **Pressure Vessel** Fabrication & Testing, **Vacuum** Systems, **Mechanical Rotating Equipment & Turbomachinery**, **Centrifugal Pump & Compressors**, **Pump** Maintenance, **Propylene Compressor & Turbine**, **Safety Relief Valve** (PRV-PSV) Inspection & Testing, **Process Control Valves**, **Valve** Troubleshooting & Repair Procedure, Advanced **Valve Technology**, **Pressure Vessels & Heat Exchangers** Design, **Strainers & Steam Traps**, Advanced **Boiler** Operation & Maintenance, **Gas & Steam Turbine** Operation, Process Design Parameters for **Gas Compressor/Turbines**, **Boilers & Steam System** Management, **Dry Gas Seal** Installation & Commissioning, **Tank** Installation & Maintenance, **Bearing** Mounting/Dismounting, **Mechanical Seals** & Systems, **Gear Boxes** Selection & Inspection, **Machinery** Troubleshooting, **Machinery** Failure Analysis & Troubleshooting, **Rotating Machinery** Best Practices, **Predictive** Maintenance, **Maintenance Planning Scheduling & Work Control**, Maintenance Strategy Development & Cost-Effective Implementation, Alignment & Troubleshooting of **Rotating Machinery**, Planning Managing **Shutdowns & Turnarounds**, **Reliability Centered Maintenance & Total Productivity Maintenance**, Analytical Prevention of Mechanical Failure, Maintenance Planning and Scheduling & Cost Estimation.

During his career life, Mr. Bazley has gained his practical and field experience through his various significant positions and dedication as the **General Manager**, **Branch Manager**, **Refinery Chairman**, **Engineering Manager**, **Maintenance Engineer**, **Construction Engineer**, **Project Engineer**, **Mechanical Engineer**, **Piping Engineer**, **Pipeline Engineer**, **Associate Engineer**, **Oil Process Engineer**, **Mechanical Services Superintendent**, **Quality Coordinator**, **Planning Coordinator**, **Consultant/Instructor**, **Lecturer/Trainer** and **Public Relations Officer** 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's** degree in **Mechanical Engineering**. Further, he is a **Certified Engineer** (Government Certificate of Competency GCC Mechanical Pretoria SA), **Certified Instructor/Trainer**, a **Certified Internal Verifier/Trainer/ Assessor**, 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.

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	***Planning of Energy*** *Related Production ● Related Consumption Units*
0930 – 0945	*Break*
0945 – 1100	***Operation of Energy*** *Related Production ● Related Consumption Units*
1100 – 1230	***Objectives of Energy Management*** *Resource Conservation ● Climate Protection ● Cost Savings*
1230 – 1245	*Break*
1245 – 1420	***Users and Access to the Energy they Need***
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0830	***The Link between Environmental Management, Production Management and Logistics and other Business Functions***
0830 – 0900	***Economic and Environmental Objectives***
0900 – 0915	*Break*
0915 – 1100	***Organizational Integration***
1100 – 1230	***Operating Costs***
1230 – 1245	*Break*
1245 – 1420	***Cost Reduction without Compromising Work Processes***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0830	***Availability and Service Life of Equipment and the Ease of Use***
0830 – 0930	***Economic, Ecological, Risk-Based and Quality-Based Targets***
0930 – 0945	*Break*
0945 – 1100	***Energy Consumption Measured in Kilowatt-Hours***
1100 – 1215	***External Sources*** *Solar ● Photovoltaic ● Energy-Plus-Houses*
1215 – 1230	*Break*
1230 – 1420	***Core Logistics Task and Requirements***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 – 0830	***Logistics Objectives and Environmental Strategies***
0830 – 0930	***Energy Procurement Decisions***
0930 – 0945	*Break*
0945 – 1100	***Production's Energy Consumption within an Organization***
1100 – 1215	***The Importance of Production Planning and Control***
1215 – 1230	*Break*
1230 – 1420	***Maintenance is Essential to Support the Energy Management***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5

0730 – 0930	***The Need for Information Technology (IT)***
0930 – 0945	*Break*
0945 – 1100	***Energy Strategy and Politics***
1100 – 1215	***Ergonomics***
1215 – 1230	*Break*
1230 – 1345	***Ethical Strategy***
1345 – 1400	***Course Conclusion***
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Practical Sessions

This hands-on, highly-interactive course includes real-life case studies and exercises:-

Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org