COURSE OVERVIEW ME0242
Packing/Packaging Plant Operation & Maintenance

Course Title
Packing/Packaging Plant Operation & Maintainance

Course Reference
ME0242

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

Course Date/Venue

Session(s)	Date	Venue
1	February 03-07, 2025	Ajman Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
2	May 04-08, 2025	Al Khobar Meeting Room, Hilton Garden Inn, Al Khobar, KSA
3	August 03-07, 2025	Slaysel 02 Meeting Room, Movenpick Hotel & Resort Al Bida'a Kuwait, City of Kuwait
4	September 28-October 02, 2025	Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
5	December 21-25, 2025	TBA Meeting Room, Taksim Square Hotel, Istanbul, Turkey

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.

The aim of this course is to provide participants with a complete and up-to-date overview of the principles involved in the operation and maintenance of packing and packaging plant and equipment. Upon the successful completion of this course, participants will gain a satisfactory understanding of the concepts of packaging design, materials handling, automation, plant layout, quality inspection, maintenance, capacity planning and some legislative considerations related to packaging plants.

During this interactive course, participants will learn the various types of packing, packaging and labelling; the considerations in designing packaging and supply chain; the basic principles of operations management and materials handling; the quality assurance and control for plant layout and flow; the legislative considerations; and the proper maintenance, planning, control, continuous improvement and lean manufacturing.

Course Objectives

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

- Apply systematic techniques, technology and procedures in packing and packaging plant operation and maintenance
- Define packing and packaging as well as labelling and its various types
- Discuss the considerations in designing packaging and supply chain
- Apply the basic principles of operations management and materials handling
- Carryout quality assurance and control for plant layout and flow at the same time interpret legislative considerations
- Employ proper maintenance, planning and control, continuous improvement as well as lean manufacturing

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 packing and packing for product designers, QA/QC engineers, product engineers, development engineers, manufacturing engineers and those who have a direct involvement in packaging operations and maintenance including production supervisors, packaging engineers, supervisors and other technical staff.

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 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.

- USA International Association for Continuing Education and Training (IACET)

  Haward Technology is an Authorized Training Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, Virginia 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 1-2013 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 1-2013 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 Association 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. Karl Thanasis, PEng, MSc, MBA, BSc, is **Senior Mechanical & Maintenance Engineer** with over **45 years** of extensive industrial experience. His wide expertise includes **Piping & Pipeline**, Maintenance, Repair, **Shutdown**, **Turnaround & Outages**, **Maintenance & Reliability** Management, **Mechanical Maintenance** Planning, Scheduling & Work Control, Advanced Techniques in **Maintenance** Management, **Predictive & Preventive** Maintenance, **Maintenance & Operation Cost Reduction** Techniques, Reliability Centered Maintenance (**RCM**), **Machinery Failure** Analysis, **Rotating Equipment Reliability** Optimization & Continuous Improvement, **Material Cataloguing**, **Mechanical & Rotating Equipment** Troubleshooting & Maintenance, **Root Cause Analysis & Reliability** Improvement, **Condition** Monitoring, **Root Cause Failure Analysis** (RCFA), **Steam Generation**, **Steam Turbines**, **Power Generator Plants**, **Gas Turbines**, **Combined Cycle Plants**, **Boilers**, **Process Fired Heaters**, Air Preheaters, Induced Draft Fans, All Heaters Piping Work, Refractory Casting, Heater Fabrication, Thermal & Fired Heater Design, **Heat Exchangers**, Heat Transfer, Coolers, **Power Plant** Performance, Efficiency & Optimization, **Storage Tank** Design & Fabrication, **Thermal Power Plant** Management, **Boiler & Steam** System Management, **Pump** Operation & Maintenance, **Chiller & Chiller Plant** Design & Installation, **Pressure Vessel**, **Safety Relief Valve** Sizing & Selection, **Valve** Disassembling & Repair, Pressure Relief Devices (**PSV**), **Hydraulic & Pneumatic** Maintenance, Advanced **Valve** Technology, **Pressure Vessel** Design & Fabrication, **Pumps**, Turbo-Generator, Turbine **Shaft Alignment**, **Lubrication**, Mechanical **Seals**, Packing, **Blowers**, **Bearing** Installation, **Couplings**, **Clutches** and **Gears**. Further, he is also versed in **Wastewater Treatment** Technology, **Networking** System, **Water Network Design**, Industrial **Water Treatment** in Refineries & Petrochemical Plants, **Piping** System, Water Movement, Water Filtering, Mud Pumping, **Sludge Treatment** and **Drying**, **Aerobic Process** of **Water Treatment** that includes **Aeration**, **Sedimentation** and **Chlorination Tanks**. His strong background also includes **Design** and **Sizing** of all **Waste Water Treatment Plant Associated Equipment** such as **Sludge Pumps**, **Filters**, **Metering Pumps**, **Aerators** and **Sludge Decanters**.

Mr. Thanasis has acquired his thorough and practical experience as the **Project Manager**, **Plant Manager**, **Area Manager - Equipment Construction**, **Construction Superintendent**, **Project Engineer** and **Design Engineer**. His duties covered **Plant Preliminary Design**, **Plant Operation**, **Write-up** of **Capital Proposal**, **Investment Approval**, **Bid Evaluation**, **Technical Contract Write-up**, **Construction** and **Sub-contractor Follow up**, **Lab Analysis**, **Sludge Drying** and **Management** of **Sludge Odor** and **Removal**. He has worked in various companies worldwide in the **USA**, **Germany**, **England** and **Greece**.

Course Fee

Abu Dhabi	**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.
Al Khobar	**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.
Kuwait	**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.
Dubai	**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.
Istanbul	**US$ 6,000** per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course 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	***Definitions*** *Packing & Packaging, Labelling ● Purposes of Packaging & Labelling ● Packaging Types: Primary, Secondary, Tertiary*
0930 – 0945	*Break*
0945 – 1100	***Considerations in Designing Packaging*** *Design Requirements ● Regulatory Requirements ● Product Life*
1100 – 1215	***Considerations in Designing Packaging (cont'd)*** *Environmental Requirements ● Packaging Machines*
1215 – 1230	*Break*
1230 – 1420	***Overview of Supply Chain*** *Supply Chain Management ● Supply Distribution Logistics ● Support Activities to Supply Chain*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0930	***Basic Principles of Operations Management*** *Process Automation*
0930 – 0945	*Break*
0945 – 1100	***Materials Handling*** *Material Handling & Efficiency ● Types of Material Handling Equipment*
1100 – 1215	***Materials Handling (cont'd)*** *Storage & Handling Equipment, Engineering Systems ● Industrial Trucks ● Bulk Material Handling ● On-Rails Transfer Carts*

1215 – 1230	*Break*
1230 – 1420	***Materials Handling (cont'd)*** *Conveyors ● Cantilevered Crane Loading Platform ● Automated Guided Vehicles*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0930	***Plant Layout & Flow***
0930 – 0945	*Break*
0945 – 1100	***Quality Assurance & Control***
1100 – 1215	***Quality Assurance & Control (cont'd)***
1215 – 1230	*Break*
1230 – 1420	***Legislative Considerations***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 – 0930	***Maintenance*** *Definitions & Terminology ● Types of Maintenance: Preventive, Predictive or Condition Based, Proactive, Risk Based, etc.*
0930 – 0945	*Break*
0945 – 1100	***Maintenance (cont'd)*** *Benefits of Preventive Maintenance ● Maintenance Plans & Schedules*
1100 – 1215	***Maintenance (cont'd)*** *Condition Based Monitoring CBM*
1215 – 1230	*Break*
1230 – 1420	***Maintenance (cont'd)*** *Tools for CBM: Thermo Graphy, Ultrasonic, Vibration Analysis, etc.*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5

0730 – 0930	***Planning & Control*** *Managing Ongoing Plans to Meet Demands ● Finite Resources Available ● Future Review ● Variable Demand*
0930 – 0945	*Break*
0945 – 1100	***Planning & Control (cont'd)*** *Adaptations to Variations in Plans ● Short Term Plans to Address Specific Problems ● Adjustment of Plans for Incorrect Assumptions ● Continuous Improvement*
1100 – 1215	***Continuous Improvement***
1215 – 1230	*Break*
1230 – 1345	***Lean Manufacturing***
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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