

COURSE OVERVIEW ME0180-4D Boiler & Steam System Management

Performance, Efficiency, Troubleshooting, Tune-Up, Heat Recovery & Optimization

Course Title

Boiler & Steam System Management: Performance, Efficiency, Troubleshooting, Tune-Up, Heat Recovery & Optimization

Course Date/Venue

September 14-17, 2026/Glasshouse Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference

ME0180-4D

Course Duration/Credits

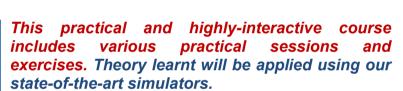
Four days/2.4 CEUs/24 PDHs

Course Description









This course provides practical information that can be readily applied to pinpoint and minimize energy losses in boiler plants and energy distribution systems. Participants will be guided through their plant system component by component, showing exactly where and how performance can be improved. Facts will be given on different fuel types and firing methods, and how modern high-efficiency boiler designs and control systems work.

Following easy-to-implement guidelines and helpful, time-saving diagrams-participants will go over strategies to methodically achieve the maximum utilization of fuel and energy to keep operating costs low and equipment performance high.

In addition to the comprehensive training manual, the course includes an e-book entitled "Boiler Operator's Guide", published by McGraw-Hill Professional, which will be given to the participants to help them appreciate the principles presented in the course.























Course Objectives

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

- Apply and gain an in-depth knowledge on boiler and steam system management
- Perform boiler tuning-up and identify its troubleshooting problems
- Discuss waste heat recovery
- Use test instruments and computers to cut costs in an effective manner
- Apply standard plant calculations including boiler plant safety, boiler controls and 60 ways to improve the plant
- Carryout steam distribution systems, steam traps and pollution control

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 boiler and steam system management for facilities engineers, operating engineers, energy engineers, managers, supervisory personnel, designers, inspectors, consultants and other technical staff who are involved in the performance, efficiency, troubleshooting, tune-up, heat recovery and optimization of boiler and steam system. The course will provide a clear and refreshing examination of boilers and their systems. It covers a range from very large to small boiler systems and is not specifically oriented toward utility plants.

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

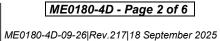
US\$ 4,500 per Delegate + **VAT**. This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.























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

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 **2.4 CEUs** (Continuing Education Units) or **24 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. Alex Iliadis is a Senior Engineer with over 30 years of indepth industrial experience within the Petrochemical, Oil & Gas and Refinery industries. His wide expertise covers in the areas of Boiler & Steam System Management, Process Reactors, Catalytic Reformer Unit, Process Systems Foundations, Gas Processing Plant Operations & Control, Gas Processing Monitoring & Troubleshooting, Chemical Engineering, Process Equipment Design & Troubleshooting, Polymers & Polymerization, Applied Process Engineering, Process Plant Optimization, Process Plant Troubleshooting & Engineering

Problem Solving, Process Plant Performance & Efficiency, Flare Blowdown & Pressure Relief Systems, Polypropylene Manufacturing, Polyethylene & Process Troubleshooting, Ammonia, Ethylene, Solvents, Gas Feed, EDC, VCM, PP, PVC, Chlorine, Fluidized Bed Reactor, Oil Movement & Storage, Power Plant Chemistry, Catalyst Manufacturing Techniques, Fuel Systems Management, Process Design & Optimization, Aviation Fuel, Diesel Engine, Jet Fuel, Petrol, IP Octane, Cetane Control, Pipeline Distribution, Boiler Fundamental Preparation, Flocculation Sedimentation, Hotline Water Softening Processes, Desalination Processes, Reverse Osmosis, Molecular Sieves, Loop Water Management System, Sludge Removal, Cooling Water System, Tank Farms, Hydrocarbons, Energy Conservation, Plant Electrical Power Generation & Cogeneration, Natural Gas Equipment & Networks, Furnaces/Combustion Facilities, Equipment Engineering Design, Rotating Equipment (Pumps, Compressors, Gas Turbines, Refrigeration Systems, etc), LPG Storage Installations, Petroleum Refining Storage Tunnel Installations, Industrial & Commercial Refrigeration Systems and various application codes such as the API, ANSI, ASME, SHRAE, NFPA, ASTM, etc.

During his career life, Mr. Iliadis has gained his practical and field experience through his various significant positions and dedications as the **Production & Technical Manager**, **Technical & Logistics Manager**, **Project Manager**, **Project Director**, **Start-up Leader**, **Technical Section Head**, **Engineering Consultant** and **Process Design & Project Engineer** for **Hellenic Petroleum**, **EXXON**, **ESSD-PAPPAS** Refining & Petrochemicals and EBZ Sugar Production Plant industry within the **European** & the **USA** regions.

Mr. Iliadis has a **Bachelor's** degree in **Chemical Engineering** from the **University of Thessaloniki** (**Greece**). Further, he is a **Certified Instructor/Trainer** and has delivered numerous trainings, courses, workshops, seminars 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:

Monday, 14th of September 2026 Day 1

monday, 14 of September 2020
Registration & Coffee
Welcome & Introduction
PRE-TEST
How to Tune-up a Boiler
Break
Troubleshooting Problems
Troubleshooting Problems (cont'd)
Break
Waste Heat Recovery
Recap
Lunch & End of Day One

Dav 2 Tuesday, 15th of September 2026

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0730 - 0900	Use of Test Instruments
0900 - 0915	Break
0915 - 1030	Using Computers to Cut Costs
1030 - 1215	Using Computers to Cut Costs (cont'd)
1215 - 1230	Break
1230 - 1420	Standard Plant Calculations
1420 - 1430	Recap
1430	Lunch & End of Day Two

Wednesday, 16th of September 2026 Day 3

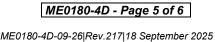
0730 - 0900	Boiler Plant Safety
0900 - 0915	Break
0915 - 1045	Boiler Controls
1045 - 1215	Boiler Controls (cont'd)
1215 – 1230	Break
1230 - 1420	60 Ways to Improve your Plant
1420 - 1430	Recap
1430	Lunch & End of Day Three

Thursday, 17th of September 2026 Dav 4

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0730 - 0900	Steam Distribution Systems
0900 - 0915	Break
0915 - 1030	Steam Traps
1030 - 1215	Steam Traps (cont'd)
1215 - 1230	Break
1230 - 1345	Pollution Control
1345 - 1400	Course Conclusion
1400 - 1415	POST-TEST
1415 - 1430	Presentation of Course Certificates
1430	Lunch & End of Course













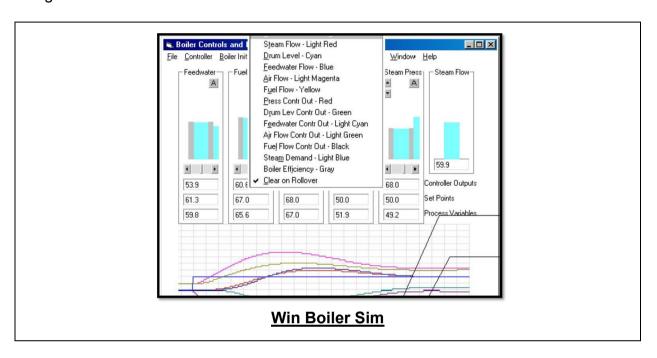






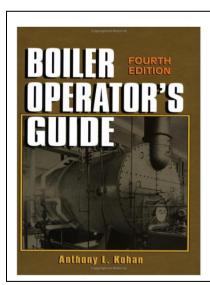
Simulator (Hands-on Practical Sessions)

Practical session will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using the simulator "Win Boiler Sim".



Book(s)

As part of the course kit, the following e-book will be given to all participants:



Title : Boiler Operator's Guide

ISBN : 978-0070365742 **Author** : Anthony Kohan

Publisher: McGraw-Hill Professional

Course Coordinator

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