MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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BOILER OPERATIONS & PERFORMANCE

"Enhancing Boiler Efficiency through Effective Operations and Maintenance"

Schedule

Date	Venue	Fees (Face-to-Face)
12 – 13 Aug 2026	Doha, Qatar	USD 1995 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

This intensive 2-day training course is designed to provide boiler operators, engineers, and maintenance personnel with the essential knowledge to optimize boiler operations and performance. Participants will explore key principles of boiler operation, performance measurement, and common challenges faced in boiler management.

The course will also focus on best practices in maintaining boiler efficiency, troubleshooting common performance issues, and implementing cost-effective strategies to prolong the life of boiler systems while maintaining safety and operational standards.

Objectives

By the end of this course, participants will be able to:

- Understand the basic principles of boiler operation and performance
- Optimize operational settings to maximize efficiency
- Monitor key performance indicators for early fault detection
- Identify and troubleshoot common boiler performance issues
- Implement preventive maintenance strategies to enhance boiler life

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Why Attend

- Gain comprehensive knowledge of boiler performance and optimization
- Learn practical strategies for troubleshooting and preventing common boiler issues
- Improve energy efficiency and reduce operational costs
- Stay up to date with best practices in boiler operations and maintenance
- Enhance your confidence in handling complex boiler systems and performance metrics

Target Audience

This program is designed for:

- Boiler operators and maintenance staff
- Process engineers and plant operators
- Mechanical engineers responsible for boiler performance
- Technicians and supervisors in charge of boiler systems
- Anyone looking to improve their boiler system performance and efficiency

Individual Benefits

Key competencies that will be developed include:

- In-depth understanding of boiler systems and their operations
- Skills in optimizing boiler efficiency and reducing fuel consumption
- Techniques for diagnosing and resolving common boiler faults
- Ability to assess boiler performance metrics for timely interventions
- Knowledge of modern technologies and best practices in boiler maintenance

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Increased boiler efficiency leading to cost savings
- Reduced downtime and fewer operational disruptions
- Enhanced skills in boiler performance monitoring and problem-solving
- Improved safety and compliance with operational standards
- A higher level of technical expertise within the organization

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Detailed sessions on boiler fundamentals, performance monitoring, and operational best practices
- Case Studies – Real-world examples of boiler performance challenges and resolutions
- Workshops – Hands-on exercises in optimizing boiler operations and performing maintenance tasks
- Peer Exchange – Group discussions on operational challenges and successful solutions
- Tools – Reference materials, checklists, and diagnostic tools for improving boiler performance

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Course Outline

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Boiler Operations Fundamentals

- Module 1: Introduction to Boiler Systems (07:30 – 09:30)
- Overview of boiler components and operations
- Key types of boilers and their applications
- Understanding boiler efficiency and performance metrics
- Module 2: Operational Best Practices (09:45 – 11:15)
- Setting up and operating boilers for maximum efficiency
- Key performance indicators for boiler systems
- Fuel and combustion efficiency optimization
- Module 3: Troubleshooting Boiler Performance (11:30 – 01:00)
- Identifying common performance issues in boilers
- Troubleshooting techniques for resolving operational problems
- Preventive maintenance strategies for improved reliability

Day 2: Boiler Maintenance and Optimization

- Module 1: Boiler Performance Monitoring (07:30 – 09:30)
- Monitoring systems and their role in performance optimization
- Advanced techniques for measuring efficiency and output
- Diagnostic tools for real-time performance tracking
- Module 2: Maintenance Practices and Challenges (09:45 – 11:15)
- Routine maintenance procedures for extending boiler life
- Handling and preventing scaling, corrosion, and other issues
- Practical tips for enhancing boiler safety and reliability
- Module 3: Improving Boiler Efficiency (11:30 – 01:00)
- Energy-saving strategies and technologies for boilers
- Reducing fuel consumption while maintaining performance
- Implementing continuous improvement practices for boiler operations

Certification

Participants will receive a Certificate of Completion in Boiler Operations & Performance, validating their expertise in optimizing boiler systems, improving efficiency, and maintaining boiler operations at peak performance levels.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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