

TRAINING TITLE

BOILER CONTROL AND BURNERS MANAGEMENT SYSTEM

Training Duration

5 day

Training Venue and Dates

Ref. No. PE157	Boiler Control and Burners Management System	5	16-20 June 2025	\$5,500	Abu Dhabi, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

This course focuses on the operation, control, and management of boiler systems and burners, with an emphasis on improving efficiency, safety, and performance. Participants will learn about the latest technologies in burner management systems (BMS) and boiler control systems, including operational procedures, safety protocols, and troubleshooting techniques.

TRAINING OBJECTIVES

By the end of the course, participants will be able to understand

- Understand the basic operation and components of boiler systems.
- Learn how to operate and manage burner systems safely and efficiently.
- Gain knowledge of burner management system (BMS) protocols and standards.
- Learn how to troubleshoot and optimize boiler and burner performance.
- Understand the importance of safety in boiler and burner operations.

WHO SHOULD ATTEND?

- Boiler operators and technicians.
- Engineers working with boiler systems and energy management.
- Maintenance staff involved in managing and troubleshooting boiler and burner systems.

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- Anyone interested in learning about the safe and efficient operation of boilers and burners.

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

COURSE PROGRAM

Day 1: Introduction to Boiler Systems

- Overview of boiler systems and their components
- Types of boilers and their applications
- Basic operation principles of boilers
- Boiler efficiency and performance

Day 2: Burner Systems and Operation

- Components of burner systems
- Types of burners and their functions
- Burner operation and controls
- Combustion principles and efficiency optimization

Day 3: Burner Management System (BMS)

- Introduction to Burner Management System (BMS)
- BMS components and architecture
- Safety standards and regulations for BMS
- Control loops in BMS

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Day 4: Boiler Control Systems and Automation

- Overview of boiler control systems
- Control strategies: Feedwater control, temperature control, pressure control
- Integration of automation in boiler control
- PLCs and DCS in boiler systems

Day 5: Troubleshooting and Maintenance of Boilers and Burners

- Common issues in boiler and burner operation
- Troubleshooting techniques and tools
- Preventive maintenance practices for boilers and burners

NOTE:

Pre-& Post Tests will be conducted.

Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.



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P.O BOX 45304
ABU DHABI, U.A.E

T +971 2 6264455
F +971 2 6275344

www.definettraining.com