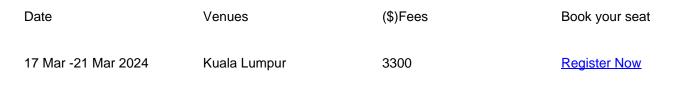


# **Industrial Boiler Operation & Maintenance**



### Course Overview

Boilers are hazardous piece of equipment to operate. It is vital that operation engineers and technicians obtain the necessary information about safe preparation, start-up, operation, trouble shooting and shut down in a proper way. The course provides the responsible personnel with the specific knowledge they need.

## Course Objective

- Combustion in steam generation and fuel analysis
- Boiler performance and efficiency calculation
- Fossil fuel boiler operation

# Who Should Attend?

All technical categories of personnel who deals with boilers Junior design engineers, boiler inspection engineers, and technicians are typical attendants too.

### **Course Outline**

- · Combustion in steam generation and fuel analysis
  - Combustion and types of fuel
  - Fuel combustion
  - Fuel analysis
  - Element of Combustion
- Boiler performance and efficiency calculation
  - Introduction to normal operation
  - Factors affecting on efficiency
  - Efficiency calculation
- Fossil fuel boiler operation
  - Light oil processing
  - heavy oil processing
  - burns and atomization
  - $\circ~$  boiler flame observation
  - preparation of startup
  - boiler warm-pup
- basic shut down procedures

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class ActivitiesCase Studies
- Case Studies
  Workshops
- Simulation
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