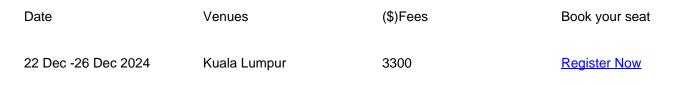


Industrial Boiler Operation & Maintenance



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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