

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, startup, control, operation, trouble shooting and shut down in a proper way. The course provides the responsible personnel with the specific knowledge they need.

Course Objective:

- Concepts of automatic control.
- Working and maintenance of Temperature, Pressure, Flow, Level and other measuring equipment.
- Operation and maintenance of various types of Transmitters, Controllers, Actuators, Valve Positioners and
- control valves with their characteristics.
- Boilers controllers
- water level controller and Air/Fuel combustion controller.
- Operation and maintenance of the Automatic Controller along with calibration.

Course Outline:

1. BASIC CONCEPTS OF AUTOMATIC BOILER CONTROL SYSTEM
2. BOILER COMPONENTS AND FUNCTIONS
3. FUNCTIONAL CONTROL SCHEMATICS
4. AUTOMATIC BOILER CONTROLS
 - a. Fuel Flow Control
 - b. Air Flow Control
 - c. Feed Water Control
 - d. Main Steam Pressure Control
 - e. High Pressure Bypass Control
 - f. Superheater and Reheater Temperature Control

Who Should Attend:

Mechanical, Operation, Production, and Maintenance Engineers Senior Technicians should benefit from this course. Also Senior Technicians can update and refresh their knowledge by attending this course.

Training Language:

EN / AR

Training Methodology:

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