

# COAL-FIRED POWER PLANT: POWER GENERATION PROCEDURES & OPTIMIZATION

Get to Know, In and Out, on Coal-Fired Power Generation  
Which is Much More Complex with Many More Components  
(Rotating Equipment) Needed for Power Generation

28th & 29th April 2019  
Grand Hyatt Dubai, United Arab Emirates

## Major Benefits Of Attending

By end of this course, delegates will be able to:

- **UNDERSTAND** the following Boilers/Furnaces:
  - Tangential
  - Wall-fired
  - Cyclone
  - Circulating Fluidized Bed
- **UNDERSTAND** the following Turbine/Generator:
  - Westinghouse
  - General Electric
  - Allis Chalmers
  - Mitsubishi
- **GET TO KNOW** and understand in depth the thermodynamic laws of energy
- **MASTER** the coal combustion process
- **GET TO KNOW** the different Boiler/Furnace Internals
- **EXPLORE** the main Steam Cycle
- **RECOGNISE** the Hot/Cold Reheat Systems
- **GET TO KNOW** the Generator and Excitation Basics
- **COMPREHEND** Generator Cooling
- **GET TO KNOW** the exit Gas temperature Control
- **KNOW** in-depth stoichiometry optimization

DELEGATES ARE  
REQUIRED TO BRING  
THEIR LAPTOP  
FOR DISCUSSION,  
EXERCISE AND  
PRESENTATION  
PURPOSES

"...the goal remains the same for  
all Fossil-Fired Processes..."

"...through a select set of  
procedures it is our ability to  
change and convert thermal  
energy into mechanical energy  
into electrical energy..."

"...the Thermodynamic Laws  
remain the same no matter what  
fuel type or turbine generator you  
are using..."

## Why you Should Attend?

This 2-day course on coal-fired power plant focusing on power generation procedures and optimization, the delegates will be able to understand about boilers and furnaces including tangential, wall-fired, cyclone, and circulating fluidized bed. This course would also be covering on turbine and generators including Westinghouse, general electric, Allis Chalmers, and Mitsubishi.

From this course, delegates will get to know and understand in depth the thermodynamic laws of energy, using it as a base to master the coal combustion process. They will also get to know the different steam cycles and be able to recognise both hot and cold reheat systems and the generators and excitation basics.

## Who Should Attend?

This course is specifically designed for:

- ✓ Mechanical Engineers
- ✓ Rotating Engineers
- ✓ Construction Engineers
- ✓ Mechanical Operators
- ✓ Rotating Operators
- ✓ Construction Operator
- ✓ Technicians
- ✓ Maintenance Personnel

And others who work with coal-fired power stations.

Organized by: \_\_\_\_\_



WE SOLVE YOUR PUZZLE