Turbine Technology: Performance, Operation, Control, Troubleshooting & Maintenance

TM154

Course Overview:

This course develops a background in gas turbine operation that enables participants to analyze operating problems properly and take the necessary corrective action.

Course Objective:

The course is intended to supply the participants with the principal of gas turbine operation. Also, to train them in monitoring the behavior of the gas turbine in general and practice the maintenance procedures that will help them in enhancing its performance. The course will be also directed to the tools and the trouble shooting techniques obeyed so as to help them to reach the full understanding of the operation of each system components.

Course Outline:

1. TURBINE SYSTEM BASIC
2. TURBINE OPERATION PRINCIPLES
3. APPLICATION GAS TURBINE
4. TURBINE SHAFT CONFIGURATIONS
5. INCREASING TURBINE EFFICIENCY
6. BASICS OF OPERATION
7. COMPONENTS OF TURBINE
    - -Gas turbine compressor
    - -Combustion chamber
    - -Turbine Section
    - -Turbine configurations
    - -Blades shapes
    - -Multi-stages
    - -Rotor, stator blades
    - -Fuel System
8. TURBINE MAINTENANCE
9. TURBINE SYSTEM PROTECTIO

Who Should Attend:

Mechanical & electrical engineers and qualified technicians should benefit from this course. Also practicing power engineers who work in generation plant should (Gas Turbine) 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