

Course Name: **Steam Turbine troubleshooting**

Code:

DATE:

Course Objective:

This course will provide an understanding of steam turbine and centrifugal compressor theory, operation, maintenance and troubleshooting. Also, the course provides how steam turbine and centrifugal compressors perform together for optimum system performance. You will learn the theory & criteria for the performance, selection and design of the steam turbine and centrifugal compressor.

Who Should attend?

This course is intended for all Operators, Technicians, Maintenance Engineers, and Engineers in the fields of: industry, steam turbine plants, heavy industry, electricity and water authority, chemical processing industries, oil industry and power stations.

Course Outline:

DAY ONE:

STEAM TURBINE

- Introduction of Steam Turbines theory
- Theory of Operation
- Main Components of a Steam Turbine Engine
- Arrangements of Steam Turbines
- Introduction to Combined Cycles
- Combined cycles applications and advantages

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- Steam turbine industrial applications

DAY TWO:

STEAM TURBINE MAINTENANCE

- Steam turbine Maintenance and Reliability
- Steam turbine preventive maintenance planning and scheduling
- Fault diagnosis of Steam turbines
- Troubleshooting of Steam turbines
- Steam turbine Troubleshooting
- Steam turbine Checking list
- Vibration Check
- Case Study and discussion

DAY THREE:

COGENERATION SYSTEMS

- Introduction to Cogeneration
- Types of Cogeneration systems
- Cogeneration with steam turbine cycle
- Cogeneration with gas turbine cycle
- Selection Considerations of Combined Cycles and Cogeneration Plants
- Applications of Cogeneration and Combined Cycle Plants
- Case Study and discussion

DAY FOUR:

CENTRIFUGAL COMPRESSORS

- Compressors overview

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- Compressor Classifications
- Principle of operation
- Types of Compressors
- Centrifugal Compressor components
- Centrifugal Compressor performance
- Centrifugal Compressor selection
- Centrifugal Compressor Seals

DAY FIVE:

CENTRIFUGAL COMPRESSOR MAINTENANCE AND TROUBLESHOOTING

- Maintenance types
- Maintenance techniques
- Centrifugal compressor preventive maintenance
- Fault diagnosis of centrifugal compressors
- Troubleshooting of centrifugal compressors
- Centrifugal Compressor installation
- Centrifugal Compressor factory test
- Centrifugal Compressor site test
- Case studies and discussion
- Course Conclusion
- POST-TEST and EVALUATION

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Course Duration: (5) Day

Venue:

Time:

Numbers of hours: Hours

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