

MECHANICAL COURSES

GAS TURBINE OPERATION and MAINTENANCE (M54A)

OBJECTIVES:

This Course will enable participant to gain an understanding of Gas Turbine Theory, Components, Operation and Maintenance

WHO SHOULD ATTEND?

The Course is Aimed at Plant Engineers, Senior Operation and Maintenance Staff.

COURSE CONTENTS:

1. Thermodynamic Cycle
2. Gas Turbine units Component and Systems
3. Gas Turbine Performance, Heat rate and Efficiency
4. Gas Turbine Operation Responsibilities
5. Pre Checks & Operation Procedures
6. Synchronizing and loading
7. Gas Turbine Shutdown
8. Gas Turbine Maintenance
9. Equipment Life factors
10. Maintenance types
11. Gas Turbine Testing and Inspection
 - a. Combustion Inspection
 - b. Hot Gas path Inspection
 - c. Overall Inspection
12. Testing and Inspections Bar chart

Duration: 5 Days

Date:	Venue:	Cost:
Feb 9-13	Dammam	SR6,000
Jul 12-16	Dammam	SR6,000

GAS TURBINE OPERATION MAINTENANCE (Frame 5&7) (M8B)

OBJECTIVE:

This 10 days course will enable participants to gain an understanding of the overall theory and maintenance procedures of GE Frame-5&7 Gas Turbine.

WHO SHOULD ATTEND?

The course is aimed at plant engineers and senior technicians with six or more years work experience in a Gas Power Plant environment.

COURSE CONTENT:

- Fundamentals of Gas Turbine Design and Operations
- Optimizing Gas Turbine Units
- Gas Turbine Maintenance
- Major Factor Influencing Maintenance and Equipment Life
- Gas Turbine Performance Test Procedures and Calculations
- Gas Turbine Performance Improvement
- Measure Instrument and Control System
- Gas Turbine Operational Procedures and Problems
- Condition Monitoring

Duration: 10 Days

Date:	Venue:	Cost:
Feb 23-Mar 5	Dammam	SR10,000
Jul 26-Aug 6	Dammam	SR10,000