

MECHANICAL COURSES

GAS TURBINE OPERATION MAINTENANCE & PROTECTION (M27B)

OBJECTIVE:

This course provides knowledge and skills in the operation, maintenance and troubleshooting of Gas Turbines.

WHO SHOULD ATTEND?

This course is recommended for anyone involved with the operation and maintenance of Gas Turbines.

COURSE CONTENT:

1. Gas Turbine Principles
 - Gas Turbine Applications
 - The Basic Gas Turbine
 - Single Shaft System
 - Two-Shaft System
 - Increasing Gas Turbine Efficiency
2. Components of Gas Turbine Units
 - Compressors
 - Combustors
 - Turbines
 - Fuel Systems and Controls
 - Auxiliary Systems
 - Starting Systems
3. Operations and Availability
 - Availability
 - Pre-start Operation, Part I
 - Pre-start Operation, Part II
 - Power Operations
 - Shutdown

Duration: 10 Days

| Date: | Venue: | Cost: |
|---------------|--------|----------|
| Jan 31–Feb 11 | Dammam | SR12,000 |
| Jul 11–22 | Dammam | SR12,000 |
| Dec 5–16 | Riyadh | SR13,000 |

GEAR REDUCERS (M5A)

OBJECTIVE:

This seminar is designed to enable participants to recognize the type of gears and understand basic functions of gearboxes.

WHO SHOULD ATTEND?

This course is recommended for supervisors or technicians working on gearbox maintenance or those requiring knowledge of gearbox functions.

COURSE CONTENT:

- Fundamentals of Gears
- Definition of Gears
- Types of Gears
- Terminology of Gearing
- Open and Closed Gear Drives
- Principles of Gear Reducers
- Types of Gear Reducers
- Lubrication and Preventive Maintenance
- Troubleshooting

PRACTICAL TASKS:

- Identifying various types of gears.
- Measuring of backlash.
- Mechanical inspection of gears.
- How to calculate some important dimensions for a gear

Duration: 5 Days

| Date: | Venue: | Cost: |
|-------------|--------|----------|
| Feb 21 – 25 | Dammam | SR7,000 |
| Jun 13 – 17 | Dammam | SR7,000 |
| Oct 3 – 7 | Jubail | SR 8,000 |