

MECHANICAL COURSES

COMPRESSORS, BLOWERS, and TURBOCHARGERS (M12A)

OBJECTIVE:

This course is designed to provide knowledge and skills in the construction, types, operation, maintenance, and troubleshooting of compressors.

WHO SHOULD ATTEND?

The course is recommended for anyone involved with maintenance and troubleshooting of compressors.

COURSE CONTENT:

- Air Compressors
- Air Reciprocating Compressors
- Air Rotary Compressors
- Air Dynamic Compressors
- Air Turbo Compressors
- Air Compressor Valves
- Air Compressor Control Systems
- Maintenance and Troubleshooting

PRACTICAL TASKS:

- Identify types of compressors, blowers and turbochargers.
- Assembly and disassembly of compressors, blowers, and turbochargers.
- Adjustment of timing gears for air blowers.

Duration: 5 Days

Date:	Venue:	Cost:
Jan 17 – 22	Riyadh	SR 8,000
May 23 – 27	Dammam	SR7,000
Sep 26 – 30	Dammam	SR7,000

CONDITION BASED MONITORING and MAINTENANCE (M49A)

OBJECTIVE:

This course provides knowledge and skills in condition based monitoring and maintenance analysis.

WHO SHOULD ATTEND?

This course is recommended for plant engineers & senior technicians who are involved in the field of maintenance and monitoring.

COURSE CONTENT:

- Introduction to Condition Monitoring
- Sock and Vibration
- ISO Standard/ISO 10816-4 for Gas Turbine Driven Sets
- Implementation of a Predictive Maintenance System
- Vibration Transducers, Eddy Current Instrumentation and Oscillator
- Vibration Velocity Sensor and Fault Analysis
- Selective Envelope Detection (SED)
- Outer race slipping and fluid film Bearing
- Orbit Analysis and Unbalance Case Study
- Cepstrum Analysis & Rolling Element Bearing Case Study

Duration: 5 Days

Date:	Venue:	Cost:
Jan 24 – 28	Dammam	SR7,000
Jun 6 – 10	Dammam	SR7,000
Dec 20 – 24	Qatar	SR 9,000