

MECHANICAL COURSES

HYDRAULIC SYSTEMS and TROUBLESHOOTING (M16B)

OBJECTIVE:

This course will enable participants to recognize equipment components and understand basic concepts of hydraulic systems.

WHO SHOULD ATTEND?

The course is suggested for technicians working on hydraulic system maintenance programs.

COURSE CONTENT:

- Principles of Hydraulics
- Reservoirs, Accumulators and Filters
- Hydraulic Pumps
- Directional Control Valves
- Pressure Control Valves
- Hydraulic Cylinders
- Hydraulic Motors
- Hydraulic Fluids
- Hydraulic Schematic Diagrams
- Hydraulic Troubleshooting

PRACTICAL TASKS:

- Exercises on hydraulic workbench.
- Connecting components.
- Operating the system.
- Fault finding
- Reading schematic diagrams.

Duration: 10 Days

Date:	Venue:	Cost:
Apr 19 – 30	Dammam	SR10,000
Oct 25 – Nov 6	Dammam	SR10,000

INTRODUCTION TO FRAME 5001 GAS TURBINE (M40A)

OBJECTIVE:

The objective of this 5 day course is to give technicians, engineers, and operations staff an insight into the basic theory, construction and functions of the frame 5001 gas turbine.

WHO SHOULD ATTEND?

This course is intended for engineers, supervisors, technicians, and Operators in the related field.

COURSE CONTENT:

- Basic Cycles, Thermodynamics, and General Observations.
- Design, Assembly and Construction of Base and Supports, Compressor, Combustion System and Turbine, Gears Couplings Bearings and Starting Systems.
- Detailed Description and Function of All Systems, Lubrication Oil, Hydraulic Oil, Cooling Water, Air Systems, Fuel Systems (Gas, Liquid & Dual Fuel), Together with the Interaction of the Systems in Operation.
- Auxiliary Systems Including Fire Protection, Heating and Ventilation, and Air inlet Filtration.
- Maintenance Introduction, Types of Inspections, and Periodic Inspection Schedules.
- Operations, Responsibilities of Operators, Initial Operational Checks, Operating Precautions, Starting Sequences and Running Data Prior to Inspections.
- Troubleshooting Guides, Annunciator and Fault Diagnosis, Glossary of Facts and Figures.

Duration: 5 Days

Date:	Venue:	Cost:
Apr 19-23	Dammam	SR6,000
Nov 8-12	Dammam	SR6,000