

# MECHANICAL COURSES

## VALVE TECHNOLOGY, SPECIFICATION, OPERATION and MAINTENANCE (M78A)

### OBJECTIVE:

This course provides detailed training for operators and maintenance personnel on all of the common types of valve used in industry and includes operating principles and practices, troubleshooting, maintenance and safe work practices.

### WHO SHOULD ATTEND?

Engineers and Technicians involved with maintenance programs who are responsible for day to day servicing and operational efficiency. Also plant maintenance engineers, process engineers and maintenance managers.

### COURSE CONTENT:

- Function of Valves
- Selection of Valves
- Different Types of Valves
- Control Valve Classification
- Valve and Actuator Types
- Characterization of Cage-Guided Valve Bodies
- Actuators
- Control Valve Accessories
- Positioners
- Material and Limitation of Using Valves
- Valve Maintenance
- Troubleshooting of Valve

**Duration: 5 Days**

Date:	Venue:	Cost:
Jun 7 – 11	Dammam	SR6,000
Dec 20 – 24	Dammam	SR6,000

## VIBRATION ANALYSIS: IMPLEMENTING LATEST STANDARD SYSTEMS and PROCEDURES (M77AE)

### OBJECTIVE:

Vibration monitoring and analysis are useful tools for predicting incipient mechanical, electrical, and process-related problems within plant equipment, machinery and continuous-process systems.

### WHO SHOULD ATTEND?

This course is targeted for all who are interested in using vibration and equipment condition monitoring tools for identifying and correcting machinery problems. This includes machinery and mechanical plant maintenance planners, supervisors and managers and senior technicians.

### COURSE CONTENT:

- Classification of Equipment Maintenance and Maintenance Decision
- Basic Vibration Theory
- Machinery Vibration Response
- Example Calculation Applications
- Transducer Mounting
- Selection and Use of Test Equipment
- Digital Signal Processing
- Modulation and Demodulation
- FFT Analyzer and Data Collector
- Using Overall Charts
- Statistical Method for Analysis

**Duration: 5 Days**

Date:	Venue:	Cost:
Mar 1 – 5	Jubail	SR7,000
Aug 16 – 20	Sharm El-Shaikh	SR8,000
Dec 6 - 10	Qatar	SR8,000