

MECHANICAL COURSES

ADVANCED PUMP TECHNOLOGY (M71AE)

OBJECTIVE:

This course focuses on the operation, troubleshooting and maintenance of pumps

WHO SHOULD ATTEND?

This course is targeted for engineers working in selection, troubleshooting and maintenance of pumps. Also persons involved in defining pump characteristics and purchasing of pumps.

COURSE CONTENT:

- Pumping Theory
- Comparison of Different Types of Pumps Performance
- Application Case Studies
- Pump Cavitation and Types of Cavitations
- Application Case Studies
- Selecting the Pump Driving
- Specified Speed
- Characteristic Curves and Pump Selection
- Perform Alignment and Laser Alignment
- Vibration Measurements and Analysis

Duration: 5 Days

Date:	Venue:	Cost:
Mar 7 – 11	Dammam	SR7,000
Sep 27 – Oct 1	Cairo	SR 9,000
Dec 12 – 16	Dammam	SR7,000

AN INTRODUCTION TO MACHINE ALIGNMENT (M39A)

OBJECTIVE:

This course focuses on the equipment, procedures, and techniques when performing alignment.

WHO SHOULD ATTEND?

This course is aimed at those senior technicians and engineers concerned with the alignment of equipment.

COURSE CONTENT:

- 1) Introduction
- 2) A Brief History of Alignment
- 3) Defining Alignment
- 4) Quantifying Misalignment
- 5) Alignment Tolerances
- 6) Couplings
- 7) Alignment Methods
 - 7.1 Approximate Method
 - 7.2 The Face & Rim Method
 - 7.3 The Reverse Indicator Method
 - 7.4 Laser Methods
- 8) Practical Considerations
- 9) Complicating Factors
- 10) Specialised Machines
 - 10.1) Drive shafts
 - 10.2) Large or Heavy Machines
 - 10.3) Flange Mounted Equipment
- 11) Component Alignment
- 12) Identifying Misalignment in Operating Machinery
- 13) Alignment Methodology (A Checklist)

Duration: 5 Days

Date:	Venue:	Cost:
Mar 14 – 18	Dammam	SR7,000
Jul 11 – 15	Dammam	SR7,000
Nov 21-25	Dammam	SR7,000