

MECHANICAL COURSES

SHAFT ALIGNMENT and VIBRATION ANALYSIS (M2B)

OBJECTIVE:

This course focuses on the equipment, procedures and techniques used when performing shaft alignment; as well as the use of hand-held meters and vibration analyzers.

WHO SHOULD ATTEND?

This course is recommended for anyone involved with the maintenance, troubleshooting or installation of rotating equipment.

COURSE CONTENT:

SHAFT ALIGNMENT:

- Alignment Theory
- Measuring and Correcting Misalignment
- Rim and Face Alignment: Measuring Vertical and Horizontal Plant Misalignment
- Graphing and Correcting Vertical Plane Misalignment
- Reverse Dial Alignment
- Measuring and Correcting Vertical and Horizontal Plane Misalignment
- Aligning Vertically Mounted Equipment
- Other Alignment Methods

PRACTICAL TASKS:

- Practical measurement of:
 - Soft foot
 - Taking runout readings
 - Setting the face gap
- Practical methods of alignment:
 - Rim and face alignment
 - Reverse dial alignment

VIBRATION ANALYSIS:

- Introduction to Vibration
- Rotating Equipment and Vibration
- Vibration Detectors
- Vibration Meters
- Vibration Analyzers
- Guidelines for Data Collection

SHAFT ALIGNMENT AND VIBRATION ANALYSIS (Continued)

PRACTICAL TASKS:

- Measurement of vibration amplitude vertical, horizontal and axial.
- Tuning frequency using strobe light in balancing motor, statically in one plane.
- Using computerized machine for dynamic balancing to turbine rotor in two planes

Duration: 10 Days

Date:	Venue:	Cost:
Jan 12 – 23	Dammam	SR10,000
Jun 14 – 25	Dammam	SR10,000