

MECHANICAL COURSES

SHAFT ALIGNMENT and ROTOR BALANCING (M64A)

OBJECTIVE:

This program provides knowledge and skills in shaft alignment and rotor balancing.

WHO SHOULD ATTEND?

This program is recommended for highly qualified engineers and technicians who work in the maintenance field.

COURSE CONTENT:

- What is Alignment
- Alignment Equipment and Methods
- Sources of Vibration Due to Mechanical Balance
- Theory of Imbalance
- Couple Imbalance
- Balancing
- Case Studies

Duration: 5 Days

| Date: | Venue: | Cost: |
|-------------|--------|----------|
| Mar 21 – 25 | Dammam | SR7,000 |
| Jul 18 – 22 | Riyadh | SR 8,000 |
| Dec 5 – 9 | Dammam | SR7,000 |

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 Plane 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