

DAY 1

Couplings: Types, Application & Operation

- Classification & Application of Couplings
- Characteristics of Rigid Couplings
- Characteristics of Flexible Couplings
- Selection of Parameters of Couplings for Pumps & Compressors and Turbines
- Advantages & Disadvantages of Different Types

DAY 2

Couplings: Installation, Maintenance & Troubleshooting

- Installation Best Practices & Safety Issues
- Coupling Inspection in Operation
- Vibration Monitoring and Analysis
- Preventive Maintenance & Condition Monitoring
- Failure Prevention & Troubleshooting

DAY 3

Shaft Alignment Basics

- Need for Shaft Alignment
- Effects of Shaft Misalignment
- Types of Misalignment: Offset and Angularity
- Measuring Techniques
- Rim and Face Alignment Method: TIR Determination

DAY 4

Alignment Measurement Methods

- Reverse Dial Methodology
- Correcting Misalignment: Foundation and Soft Foot
- Thermal Growth Determination
- Laser Optic Technique
- Misalignment Detected by Vibration Monitoring

DAY 5

Effect of Misalignment on Bearings & Seals

- Effect of Misalignment of Bearings
- Vibration Monitoring Results as Indication of Misalignment
- Effect of Misalignment on Seals of Pumps and Compressors
- Leakage Control & Prevention
- Summary and Conclusions