

MECHANICAL MAINTENANCE OF ROTATING EQUIPMENT (REF:OTSMMRE001)

Rotating Equipment Maintenance (5 Day)

Day 1 - Types of pump

- Water Pumps and Pump Stations
- Centrifugal Pumps
- Multistage Pumps
- Other Pump Types

Mechanical Design and Pump Selection

- Selection Criteria
- Pump Components and Design
- System Design
- Affinity Laws
- Pump Efficiency
- Pump Drivers
- Impellers and Diffusers
- Bearings
- Thrust and Journal Bearings
- Cavitation problems

Day 2 - Couplings, Bearing, Impellers and Seals

- Coupling Types
- Coupling Types and Applications
- Flexible and Rigid Couplings
- Coupling Problems and Diagnosis

Bearings

- Journal and Thrust Bearings
- Roller Bearings
- Bearing Types and Applications
- Bearing Problems and Diagnosis

Day 3 - Compressor Types: - Basic and Troubleshooting

- Compressor Types and Applications
- Centrifugal, Reciprocating, Screw Type Compressors
- Compressor Selection

Centrifugal Compressors

- Major Components
- Single Stage and Multi Stage Impellers
- Maintenance Requirements
- Impellor Maintenance
- Bearing and Seal Maintenance
- Troubleshooting

Reciprocating Compressors

- Major Components
- Maintenance Requirements
- Rod run-out
- Bearings and Seals
- Troubleshooting

Screw Compressors

- Major Components
- Maintenance Requirements
- Troubleshooting



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Day 4 - Bearing Monitoring and Maintenance

- Bearing Types and Applications
- Journal Bearings
- Designs and Applications
- Thrust Bearings
- Designs and Applications
- Roller Bearings
- Bearing Selection
- Bearing Storage and Repair

Day 5 - Maintenance Skills and Solving Mechanical Problems

- Types of Maintenance
- Breakdown Maintenance
- Planned Maintenance
- Preventive Maintenance
- Comparison of Maintenance Techniques
- Overview of Condition Monitoring

