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**Course Name**

# Mechanical Rotating Equipment: Operation, Maintenance, Inspection

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**Sector Name**

Mechanical Engineering

**Document Type**

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## Mechanical Rotating Equipment: Operation, Maintenance, Inspection

### Course Introduction

Rotating equipment is one of the major capital cost items, a key reliability problem, and consumes huge amounts of energy. For most companies, the costs of owning and running rotating equipment are much higher than they should be.

A shortage in general knowledge of how to apply, specify, install, and operate the equipment is a major reason for these high costs. This training course is designed to address this problem.

Our Total rotating equipment course is an in-depth look at common equipment's applications, including selection, operation, troubleshooting, and maintenance. Individuals in industry will find this to be a valuable course for learning the importance of proper equipment operation and typical behavior, and troubleshooting in application.

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## Mechanical Rotating Equipment: Operation, Maintenance, Inspection

### Target Audience

- ✓ Automotive Engineer
- ✓ Boiler Engineer
- ✓ Ceramics Engineer
- ✓ Equipment Engineer
- ✓ High-Pressure Engineer
- ✓ Marine Engineer
- ✓ Mechanical Design Engineer
- ✓ Mechanical Engineer
- ✓ Naval Architect
- ✓ Pipeline Engineer
- ✓ Power Engineer
- ✓ Rotating Equipment Engineer
- ✓ Senior Mechanical Engineer
- ✓ Turbine Engineer
- ✓ Validation Engineer

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## Mechanical Rotating Equipment: Operation, Maintenance, Inspection

### Learning Objectives

- ✓ Understanding Safety & General Underpinning Knowledge
- ✓ Rotating equipment components and function.
- ✓ Operation and maintenance of the most commonly used equipment.
- ✓ General procedures for troubleshooting and solving problems.
- ✓ Proper maintenance arrangement for proper installation.
- ✓ Familiarization with the ISO standard API related to each equipment.
- ✓ Understand the Hydraulics & Pneumatics • Understand Heat Exchangers' functions
- ✓ Understand Plant Maintenance • understand Breaking containment
- ✓ Know the Pipes, Flanges & Pipe work
- ✓ Understand Rigging & Lifting techniques – general awareness for vertical, uncomplicated lifting

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## Mechanical Rotating Equipment: Operation, Maintenance, Inspection

### Course Outline

#### ✓ 01 DAY ONE

##### **Module (01) Safety & General Underpinning Knowledge**

- ✓ Authorization and Competency of Mechanical Personnel
- ✓ Description of Work
- ✓ Role descriptions by competency level
- ✓ Facility Maintenance Technician Competency Profile
- ✓ Workshop Safety
- ✓ Safety in fabrication and installation works
- ✓ Safety in metal cutting, forming, and machining
- ✓ Workplace Hazards
- ✓ Equipment and Execution of Work

##### **Module (02) Hand and Power Tools**

- ✓ Safe working conditions & techniques
- ✓ Safe use of Abrasive wheels on pedestal & angle grinders
- ✓ Assembly Tools
- ✓ Cutting Tools
- ✓ Power Tools
- ✓ Motorized or Power-driven
- ✓ Electric Drill

- ✓ Portable Abrasive Wheel Tools
- ✓ Pneumatic Tools
- ✓ Hydraulic Power Tools
- ✓ The Hazards of Hand Tools
- ✓ The Dangers of Power Tools

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### Course Outline

#### ✓ 02 DAY TWO

##### **Module (03) Measuring Tools**

- ✓ Rule
- ✓ Square Angle
- ✓ Angle Meter
- ✓ Depth Gauge
- ✓ Calipers
- ✓ Drill & Standard Wire Gauges
- ✓ Feeler Gauge
- ✓ Screw Cutting Gauges
- ✓ Screw Pitch Gauges
- ✓ Micrometer
- ✓ Vernier Caliper
- ✓ Vernier Depth Gauge

##### **Module (04) Maintenance Introduction**

- ✓ Maintenance objectives
- ✓ Proper safety practice in the workshop
- ✓ Types of maintenance
- ✓ Run to Failure Maintenance

- ✓ Preventive Maintenance
- ✓ Predictive Maintenance
- ✓ Advanced predictive maintenance techniques
- ✓ Vibration Measurement and Analysis
- ✓ Infra Thermo-Graphy Technique
- ✓ Oil analysis technique
- ✓ Maintenance Planning Technique
- ✓ Measuring Tools Usage
- ✓ Proper Maintenance Practice

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#### ✓ 03 DAY THREE

##### **Module (05) Compressors Operation and Maintenance**

- ✓ Compression Process Fundamentals
- ✓ Compressors Types and Usage
- ✓ Compressor Selection
- ✓ Compressor Surge Phenomena and Control
- ✓ Balancing Drum Function
- ✓ Dry Gas Seal Fundamentals

##### **Module (06) Shaft Alignment and Bearing Installation and Maintenance**

- ✓ Shaft Alignment Introduction
- ✓ Shaft Alignment Techniques
- ✓ Bearing Introduction
- ✓ Bearing Types
- ✓ Bearing Maintenance
- ✓ Bearing Identification
- ✓ Bearing Mantling and Dismantling
- ✓ Proper Storage Way for Bearings

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#### ✓ 04 DAY FOUR

##### **Module (07) Gas Turbine Operation and Maintenance**

- ✓ Gas Turbine Operation Fundamentals
- ✓ Gas turbine main components and their function
- ✓ Turbine Auxiliary
- ✓ Turbine Hydraulic System
- ✓ Turbine Air Filter System
- ✓ Turbine Fire Fighting System

##### **Module (08) Valves Selection and Maintenance**

- ✓ Valves Function
- ✓ Valves Type
- ✓ Valves Selection
- ✓ 8.4 Proper Maintenance Practice for Valves

##### **Module (09) Pumps Operation and Maintenance**

- ✓ Pumps: Function and Types

- ✓ Pumps Classification
- ✓ Pumps Selection
- ✓ Pumps Mechanical Seal
- ✓ Pumps Performance Control.

## **Module (10) Hydraulics & Pneumatics**

- ✓ Introduction to Pneumatics
- ✓ Applications of pneumatics
- ✓ Introduction to Hydraulic
- ✓ Hydraulic Equipment

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#### ✓ 05 DAY FIVE

##### **Module (11) Heat Exchangers**

- ✓ Introduction to Heat Transfer
- ✓ Shell-and-Tube Heat Exchangers
- ✓ Construction & Maintenance of Heat Exchangers
- ✓ Maintenance of Heat Exchangers

##### **Module (12) Pipes, Flanges & Pipe work**

- ✓ Flange identification & Rating - ANSI, GOST "Russian"
- ✓ Pipe Material, ASTM standards, Wall thickness & rating
- ✓ Pipe specifications & gasket identification
- ✓ Weldability of pipe material and preparation for welding
- ✓ Bolt torqueing and thread lubricants (lubricants & coefficients of friction)
- ✓ Bolt torqueing - Manual wrenches, calibration & hydraulic tools

##### **Module (13) Rigging & Lifting techniques - general awareness for vertical, uncomplicated lifting**

- ✓ Introduction
- ✓ Rigging Fundamentals and Safety

- ✓ Rigging Components
- ✓ Overhead Cranes

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## Mechanical Rotating Equipment: Operation, Maintenance, Inspection

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
June 29, 2026	July 3, 2026	5 days	4950.00 \$	Spain , Barcelona
Aug. 31, 2026	Sept. 4, 2026	5 days	4250.00 \$	UAE , Dubai
Nov. 9, 2026	Nov. 13, 2026	5 days	4250.00 \$	UAE , Abu Dhabi

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