

Rotating Equipment Operation & Maintenance

COURSE OVERVIEW

This course provides practical training in the operation, maintenance, and reliability of rotating equipment, including pumps, compressors, turbines, and motors. The curriculum emphasizes predictive and preventive maintenance strategies, troubleshooting techniques, and best practices for extending equipment life and ensuring safe, efficient operation in industrial and process environments. Participants will learn key principles of mechanical performance, vibration analysis, lubrication, alignment, and failure prevention.

WHO SHOULD ATTEND?

This course is ideal for mechanical engineers, maintenance engineers, reliability engineers, operations supervisors, plant technicians, and technical personnel responsible for rotating equipment. It is also suitable for other individuals seeking practical skills in troubleshooting, preventive maintenance, and performance optimization of pumps, compressors, turbines, and motors.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Analyze rotating equipment performance and identify operational deficiencies.
- Implement vibration analysis and condition monitoring techniques.
- Execute precision alignment and balancing procedures.
- Troubleshoot bearing, seal, and lubrication system failures.
- Develop and optimize preventive and predictive maintenance programs.
- Conduct root cause analysis for equipment failures and implement corrective actions.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Rotating equipment dynamics and performance characteristics.
- Vibration analysis and condition monitoring methodologies.
- Bearing and seal selection, installation, and maintenance.
- Alignment techniques and balancing procedures.
- Lubrication principles and oil analysis.
- Failure analysis and root cause determination.
- Maintenance strategy development and reliability optimization.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded