

Fans & Blowers

This two-day course provides an overview of how fans and blowers operate and compares them with centrifugal pumps. Hands-on training is the primary focus of this course, with approximately 50% of class time performing laboratory exercises. This course is designed to be conducted in conjunction with Anti-Friction Bearing Maintenance and Precision Tools course.

I. Fan Types

- Classifications
- Characteristics
- Centrifugal Fans
- Axial Fans

II. Components

- Materials of Construction
- Shafts and Seals
- Bearings
- Shafts
- Housings
- Dampers and Ductwork
- Lubrication Systems
- Valves

III. Operation

- Efficiency
- Power Requirements
- Speed
- Measuring Air Movement
- Fan Laws
- Normal Operation
- Abnormal Operation

IV. Maintenance

- Large Fan Maintenance
- Installing Belt Drives
- Bearing Installation
- Foundations
- Coupling Installation and Alignment
- Preventive Maintenance

V. Troubleshooting

- Troubleshooting Techniques
- Performance Evaluations
- Equipment Use