

Course Overview:

A machine element that permits free motion between moving and fixed parts. Antifrictional bearings are essential to mechanized equipment; they hold or guide moving machine parts and minimize friction and wear.

Course Objective:

Provides participants with global overview on the bearing maintenance strategies. Enables participants: to determine the possible causes of the bearing failures, to interpret the trouble condition and select their solution, to review rolling bearing monitoring techniques, to set up a vibration monitoring program

Course Outline:

- Classification And Selection Of Rolling Bearing.
- Radial And Thrust Bearings.
- Special Design Of Rolling Bearings.
- Main (Journal) Bearings.
- Material And Design.
- Maintenance And Replacement Of Rolling Bearings.
- Working Conditions In Assembly Area.
- Shaft And Housing Preparation.
- Basic Mounting Methods And Faulty Mounting Practice.
- Bearing Maintenance Checklist And Service Records.
- Inadequate Bearing Lubrication.
- Effective And Ineffective Seals.
- Failure Analyses And Their Causes.
- Trouble Conditions And Their Solutions.
- Overheated Bearings.
- Noisy Bearing And Vibration.
- Replacements Are Too Frequent.

Who Should Attend:

Engineers, technicians and foremen whose work involves: vibration measurement and analysis, maintenance system of machine parts and structure, field service and machinery start-up, quality control and incoming inspection.

Training Language:

EN / AR

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation