Rotating Machinery Bearing & Lubrication Technology

TM172

Course Overview:

This course offers intensive insight into bearing life improvement and .The participant will gain knowledge in bearing selection, proper bearing lubrication and troubleshooting skills as well as predictive and preventive maintenance of bearings

Course Objective:

The course presents a systematic approach to the basics of mechanical troubleshooting,. It first adopts a general approach to the importance of pumps, bearings maintenance and its main motives, then it explains what is meant by maintenance types, like preventive maintenance, corrective and adaptive maintenance and the skeletons of maintenance systems

Course Outline:

-Introduction To Bearings
-Bearing Design
-Principle Of Bearing Operation
-Bearing Classification
-Bearing Selection
-Classification Of Bearings
-Principle Of Operation
-Advantages & Disadvantages Of Plain Bearings
-Types Of Plain Bearings
-Seal Function
-Types Of Seals And Materials
-Bearing Inspection
-Bearing Repair
-Disassembly And Reconditioning
-Principles Of Lubrication
-Oil Lubricants
-Grease Lubricants
-Types Of Lubricants
-Refining Of Lubricants
-Manufacture Of Lubricants
-Lubricants Characteristics
-Chemistry Of Lubricants
-Properties Of Lubricants (Viscosity, Flash Point, Fire Point, Pour Point And Oxidation Resistance)
-Lubricants Selection (Load, Speed, Temperature And Environment

Who Should Attend:

1. Electrical, mechanical, and chemical Engineers.
2. Senior technicians who work in the electrical control and power utilities.
3. Technicians who would like to refresh their knowledge.
4. Mechanical and chemical Engineers who are interested in control subjects.

Training Language:

EN / AR

Training Methodology:

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