

Workshop on

"Plain Journal, Antifriction & Ball Bearings Maintenance Techniques" 3-Days On-Site Program

About Us

We are the training providers and deals in Technical, HSEQ, Management and Soft Skills Training.

We have highly knowledgeable and experienced local & foreign subject matter experts. Our team is highly focused and provides the best support as per your requirements and needs.

We provide a platform from where you can add value in your teams. We are highly fascinated on the development of your Technical and Management Teams.

We can provide on-site and classroom training.

About Trainer

Mr. Moataz is an Egyptian and our freelance trainer for Pakistan. He is a professional Certified maintenance & monitoring engineer with more than 18 years of on hands experience in maintenance of gas turbines, pressure compressors, turbo expander, rotation of equipment & condition monitoring with a demonstrated working history.

He is highly skilled at designing training and technical content, training both technical and non-technical staff with an effective imparting knowledge and devise training exercises for all types of learners.

He has proven success in utilizing cutting-edge technology to trained hundreds of resources in different organizations and universities.

He is level III certified Vibration Analyst. He has Master Degree in Mechanical Engineering from Alexandria University and he is currently instructor in Mobius Institute. He has more than 1200 hours training hours & he is multilingual. He has an investigative, analysis and explorative skills that keep him an active learner and encourages to polish his skills.

Course Summary

This course covers principles and applications of various types of bearings, including Plain Journal, Ball, and Roller Bearings. It explains installation, inspection and maintenance of bearings.

This course deals with specialized bearings, including powdered-metal, nonmetallic, and hydrostatic bearings. Covers bearing seals, lubrication, and maintenance practices.

Training Content:

Lesson 1 - Bearings and Shafts

Bearing Classification and Selection; Shaft Materials and Stresses; Vibration; Critical Speed; Fits And Clearances

Lesson 2 - Plain Journal Bearings I

Features, Types, and Advantages; Lubrication; Lubricating Grooves; Seals; Split Bearings; Bearing Design; Selection

Lesson 3 - Plain Journal Bearings II

Materials; Score Resistance; Load Capacity; Fatigue Strength; Conformability; Embed Ability; Corrosion and Temperature Resistance; Relining

Lesson 4 - Antifriction Bearings I

Operating Principles; Bearing and Cage Materials; Lubrication; Seals and Shields; Tolerances; Fits; Standard and Precision Bearings; Running Accuracy

Lesson 5 - Antifriction Bearings II

Environment; Mounting; Radial and Axial Clearance; Fixed and Floating Bearings; Fits; Alignment; Mounting Methods; Selection

Lesson 6 - Ball and Roller Bearings

Ball and Roller Bearing Design; Single-Row Radial, Single- and Double-Row Angular Contact Bearings; Two-Piece, Inner-Ring Bearings; Roller Bearings.

Lesson 7 - Specialized Bearings

Thrust, Self-Aligning, Linear-Motion, Mounted, Instrument, Ungrounded Ball, Powdered-Metal, Nonmetallic, and Hydrostatic Bearings.

Lesson 8 - Bearing Seals

Seal Functions; Terminology and Classifications; Labyrinth Seals; Special Seals; Selection and Application; Seal Materials; Mechanical Seals.

Lesson 9 - Lubrication

Lubrication Practices And Equipment; Oil and Grease Lubrication; Packing; Manual, Natural, And Automatic Lubrication Devices And Systems.

Lesson 10 - Bearing Maintenance

Maintenance, Cleaning, and Installation; Mounting And Removing Bearings; Loading Patterns; Failure Terminology

The
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Industrial Training & Consulting

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