

Mechanical Equipment: Compressors, Pumps and Bearings

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Mechanical Equipment: Compressors, Pumps and Bearings

Overview

The seminar will introduce participants to Mechanical Troubleshooting, Pumps, Bearings, and Lubrication, enabling them to optimise the types of pumps and bearings.

Course Objectives

- Understand the basic maintenance tools for utilities, such as Ammeters, voltmeters, wattmeters, Power factor meters, and Oscilloscopes.
- Troubleshoot problems and the associated actions to be taken, especially in the cases of equipment failure
- Diagnose common mechanical faults using structured troubleshooting approaches to minimise equipment downtime and prevent recurrence.
- Apply advanced maintenance strategies (preventive, predictive, and corrective) to enhance equipment life and performance.
- Utilise diagnostic tools and measurement instruments (e.g., ammeters, oscilloscopes, and vibration analysers) for effective fault identification.
- Interpret failure patterns in pumps, bearings, and lubrication systems to recommend efficient corrective actions.

Course Content

- Importance of Maintenance
- Troubleshooting Problems -Pumps, Bearings Faults
- Fault Types -Troubleshooting System
- Mechanical Equipment
- Materials and Heat Treatments
- Bearings
- Lubrication System
- Maintenance for Pumps, Bearings, and Equipment
- Preventive maintenance
- Corrective maintenance
- Predictive maintenance
- Measurements



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Targeted Audience

- Electrical, mechanical, and chemical Engineers and technicians
- Senior technicians who work in the electrical control and power utilities

Course Methodology

Facilitated by an experienced professional trainer, this training course will be conducted as a highly interactive workshop session. A variety of training methodologies and facilitation techniques will be employed before and during the course, as applicable. These methods are aimed at enhancing individual and group interaction while maximising learning. Some of these methods are:

- Online Pre-post Test
- Colourful Visual Aids
- Gamification
- Self-Assessment Instruments
- Simulations
- Case Studies
- Videos
- Group Exercises & Discussions
- Role-plays
- Indoor & Outdoor games

