

Course Overview:

This seminar is designed to enable participants to recognize the type of gears and understand basic functions of gearboxes.

Course Objective:

- Explain the fundamentals of gear contacts, geometry and of the materials employed.
- Review the major types of gears and their diverse operational properties.
- Discuss the main factors affecting gear design
- Describe how to select a gearbox for a given application and the factors that need to be considered.
- Show the methods of manufacturing gears.
- Discuss the vibration problem in gears.
- Learn what the common gear failures are and how to avoid them.

Course Outline:

- Fundamentals Of Gears
- Definition Of Gears
- Types Of Gears
- Terminology Of Gearing
- Open And Closed Gear Drives
- Principles Of Gear Reducers
- Types Of Gear Reducers
- Lubrication And Preventive Maintenance
- Troubleshooting

Who Should Attend:

This course is recommended for supervisors or technicians working on gearbox maintenance or those requiring knowledge of gearbox functions.

Training Language:

EN / AR

Training Methodology:

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