



شركة ميرك العربية السعودية  
MEIRC Saudi Arabia

## Industrial Gearbox Maintenance

### Duration 5 Days

### Introduction

This class will provide the participant with the knowledge needed to properly maintain, service, inspect, select and repair a variety of Industrial gearboxes. The course will be an instructor-led, hands-on class that will allow the participant to physically take apart various industrial gearboxes and learn to properly “set” the gears and how to properly “preload” the bearings for maximum life expectancy. There will be a workbook, handouts and various visual aids used in the classroom to facilitate learning.

### Who Should Attend

This is an essential course for those engineers/technicians interested in Industrial gearing

### Course Objectives

- At the completion of this course the participant will be able to:
- Properly “setup” an industrial gear drive.
- Understand the selection procedures used to select the correct industrial gearbox.
- Troubleshoot industrial gearboxes using failure analysis.
- Select the correct lubrication to ensure maximum life expectancy.
- Correctly remove and replace bearings, seals and gears.

### Course Outlines:

- Introduction to Gears
- A Brief History of Gearing
- Terminology of Gearing
- Precision Measurement for Gearing
- Selection of the Correct Type of Gearbox
- Spur Gear Drives
- Helical Gear Drives
- Double Helical Gear Drives
- Herring Bone Gear Drives
- Hypoid Gearing
- Worm Gear Drives
- Cone Drives
- Cycloidal Drives
- Cam Drives
- Variable Speed Drives
- Gear Set Up
- Bearings
- Lubrication
- Seals