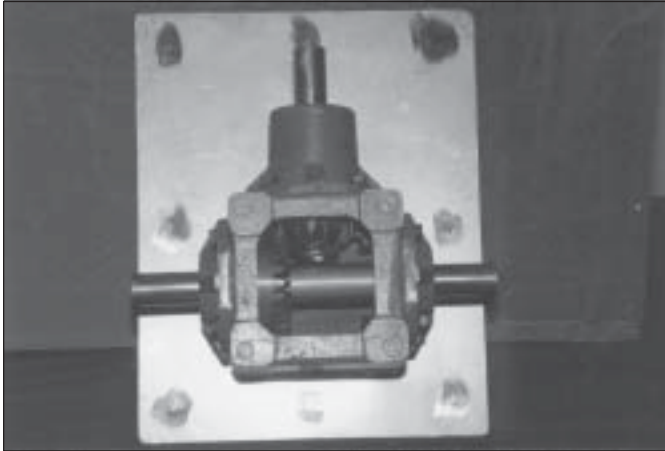


Industrial Gearbox Repair



Description

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.

Outline

- 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

Prerequisites

There are no prerequisites other than an interest in Industrial gearing and a willingness to participate in a "hands-on" classroom environment.

Course Length

32 hours.

Performance 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.