

# PRECISION MAINTENANCE SKILLS 2



## Precision Bearing Installation & Maintenance

### COURSE DESCRIPTION

40 Hours/No Prerequisite

Learn How to Easily Double or Triple Bearing Life. By using real plant size bearings, shafts and housings, participants will learn how to use the proper tools to eliminate common bearing installation errors. Mounting techniques resulting in proper clearances, pre-loads and critical fit & tolerances are taught.

Participants will learn simple bearing failure analysis and all the correct mounting methods used by Bearing OEM's including: turning angle, pressure w/ hydraulic nut, how to find and interpret vital bearing nomenclature, and how to avoid common lube mistakes.

**RECOMMENDED AUDIENCE:** Maintenance and Construction Craftsmen, Front-line Supervisors, Maintenance Managers and Superintendents, Reliability and Maintenance Engineers supervising contractors doing machinery installation, repairs and reliability improvement.

### **Course Objectives**

Proper Bearing Removal, Installation and Adjustment of:

- Ball bearings
- Cylindrical roller bearings including cooper split bearings
- Tapered bore spherical roller bearings and journal condition
- Angular contact thrust bearings
- Pillow block bearings and the new concentra bearing
- Paper machine, steel and aluminum mill large roll journals
- Tapered roller bearings
- Straight bore spherical roller bearings
- Needle bearing specifics
- Timpken TDO and TDI bearings
- Explain misunderstood bearing nomenclature
- Understand precision bearing installation criteria



A Hendrix Precision - Cornerstone Partnership

