# Mechanical Drives & Power Transmission



Proper installation and maintenance of mechanical drives can be enormous in terms of operating efficiency, wear & tear on equipment, and downtime. Learn to install the most common mechanical drives which include: belts, chains, and gears. Learn the roles of proper alignment, lubrication, fastening techniques, and troubleshooting. Learn to spot the symptoms of failure, analyze, and selection of the appropriate corrective action.

\*Optional Hands-on lab: Clients may opt to include client-owned equipment that has failed to support discussions on what failed and possible root cause analysis. For example: worn bearings, gear boxes, bull gears, worn shafts, belts, pulleys, chains, and sprockets. Additional time will be required.

## WHAT THIS COURSE COVERS

- Learn the roles of proper lubrication, bearings, proper alignment and fastening techniques.
- Troubleshooting, spotting the symptoms of failure and selection of the appropriate corrective action.
- How to install and maintain mechanical drives:
  - Examining all the common mechanical drives including belts, chains, and gears;
  - Learning the roles of lubrication, bearings, alignment, fastening techniques, troubleshooting;
  - Spotting the symptoms of failure and selection of the appropriate corrective action

Hands-on

## WHO SHOULD TAKE THIS

- Maintenance Managers
- Facility Engineers
- Process Engineers
- Maintenance Mechanics

Lecture

Stationary \ Building Engineers

### **COURSE OUTCOMES**

- Understanding of proper installation tensions, alignment, lubrication, and bearing selection.
- Understanding of routine maintenance.
- Understanding of how to identify failing drives and select appropriate corrective actions.
- Optional review of client equipment failures
- Optional review of client equipment installation in their facility and maintenance processes.

### **COURSE AGENDA**

- Mechanical Power Transmission
- Prime Movers
- General Lubrication Considerations
- Gear Drive Systems
- Clutches and Brakes
- Mechanical Variable Speed drives

LIVE ONLINE: N/A



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MD Course Overview and Agenda v11222024.docx

ONSITE: 3-days (24 hours)