



Reciprocating And Screw Compressors Operation And Maintenance

Training Program



Course Description:

This course defines functions, operation and condition monitoring of Major types of reciprocating screw. It considers and discusses Performance and maintenance requirements of compressor units Installed on your sites. A high amount of class participation in Demonstration of principles and group is required.

Who Should Attend?

Personal who are will be responsible for P.D compressor maintenance or Operation

Course Objectives:

By the end of the course participants should have a deep background on the following:

- Types and applications of Positive displacement compressor
- Types and Application of Reciprocating compressors
- Crosshead , Piston rod and Rod runot of compressors

- Packing and valve assembly and inspection
- Lube systems
- Screw Compressor
- Component function
- Condition monitoring

Course Outline:

Day 1:

- Introduction
- Effects of the machinery Environment on reliability
- Positive displacement compressor
- Types
- Application
- Selection
- Component
- Condition
- Reciprocating compressor assembly, Dis-Assembly and Inspection Guidelines
- Main bearing
- Web deflection

Day 2:

- Crosshead
- Piston rod / crosshead connection
- Rod nut
- Packing assembly
- Valve assembly / inspection
- Unloaders

- Rings and rider bands
- Cylinder / packing lubrication
- Lubrication systems
- Reciprocating Component Condition Monitoring

Day 3:

- Data Trap
- And online? monitoring
- Main bearings
- Crosshead
- Rod load
- Rod reversal
- Packing

Day 4:

- Valve condition
- Ring, rider band
- Volumetric efficiency
- Screw Compressor

Day 5:

- Types
- Applications
- Selection
- Component function
- Condition monitoring