

Corporate Office

7042 Fairfield Business Dr.
Fairfield, OH 45014-5480
(513) 874-3225
(513) 874-3229 Fax



HYDRAULIC PUMP ANALYSIS

Course Description: This course covers the fundamentals of hydraulic pumps and their operating principles. The specific types of pumps to be covered are vane, piston and gear. The class then focuses on their outputs, types of controls, determining pump conditions, disassembly, repair, and causes of failures. A brief discussion of servo controls will also be covered.

Prerequisites: Basic knowledge of hydraulics is recommended

Course Materials: CFC-Solar Binder with hand outs

Learning Objectives:

- Understanding of basic hydraulic functions
- Positive displacement pump operating principles for fixed and variable designs
- Review types of pump controls
- Review types of valve control systems
- Pressure compensation
- Learn the difference between proportional and servo controls
- Discuss common pump failures
- Review proper pump disassembly
- Pump testing checklists and discussion
- Determining pump condition