Hydraulics & Pneumatics Operations

Course Outline [ 80% Hands-On training ]
This class is designed to help technicians understand the concept of fluid and air power and its applications. This class will also cover components and troubleshooting when problems arise.

Lesson 1: Safety
1.1: Explain the safety hazards of pressure
1.2: Identify different types of PPE for Hydraulics & Pneumatics
1.3: Explain OSHA regulations

Lesson 2: Fluid Laws
2.1: Explain Pascals Law
2.2: Explain Boyles Law
2.3: Demonstrate the different Laws (Hands on lab)
2.4: Identify fluid flow

Lesson 3: Systems
3.1: Identify the components of hydraulic & pneumatic systems
3.2: Demonstrate building hydraulic circuits
3.3: Demonstrate building pneumatic circuits
3.4: Identify air leaks and hydraulic leaks

Lesson 4: Troubleshooting
4.1: Troubleshoot pneumatic systems.
4.2: Troubleshoot hydraulic systems.