

MFG 118 : FLUID POWER SYSTEMS I

Transcript title

Fluid Power Systems I

Credits

2

Grading mode

Standard letter grades

Total contact hours

60

Lab hours

60

Prerequisites

instructor approval.

Recommended preparation

MFG 100.

Course Description

Introductory fluid power class. Includes single/double-acting cylinder operations, directional control valve operations, fluid power symbols and the creating of operational hydraulic and pneumatic circuits.

Course learning outcomes

1. Student will construct and operate multi-component hydraulic circuits.
2. Student will apply principles of hydraulic power systems to design circuits.
3. Student will identify basic hydraulic power system components.
4. Student will construct speed and pressure control circuits.
5. Student will calculate and apply principles of hydraulic pressure and flow.
6. Student will design fluid circuits to perform specific operations.