

MFG 104 - FLUID POWER

Course Description

The Fluid Power course is designed to provide students with a basic understanding of the concepts and applications of fluid power technology and the necessary skills for further study in the field. The course is an overview of fluid power technology applications; the general concept of fluid power systems; an introduction to energy input, energy output, energy control, and systems auxiliary components; as well as the design and function of components. As part of this course, students will earn an IFPS Connector and Conductor certification. Group 2 course.

Credit Hours

3

Contact Hours

4

Lecture Hours

2

Lab Hours

2

Recommended Prerequisites or Skills

Competencies

Placement into MTH 111 and ENG 99/108

General Education Outcomes supported by this course

Critical Thinking - Direct, Quantitative Reasoning

Course Learning Outcomes

Knowledge:

- Understand and identify the correct terminology, components, and safety guidelines used within the fluid power industry.

Application:

- Apply fluid power equations, laws, and theorems to solve mathematical problems.

Integration:

- Design and analyze basic fluid power circuits.

Human Dimension:

- Become effective team members.

Caring - Civic Learning:

- Communicate the historical significance of fluid power technology.

Learning How to Learn:

- Recognize and identify fluid power systems in industrial and commercial applications.