
SECTION HEADING

MECH 1120: Pneumatic Theory

Description

Pneumatic Theory introduces the students to gas laws and principles, and pneumatic component identification, functions and applications.

Credits

3

Prerequisite

None

Corequisite

Concurrent enrollment with MECH 1131

Topics to be Covered

1. Pneumatic system components.
2. Pneumatic system applications.
3. Pneumatic gas laws.
4. Pneumatic symbols.
5. Pneumatic circuit design.

Learning Outcomes

1. Address safety issues related to pneumatic systems.
2. Identify different components of a pneumatic system.
3. Describe how pneumatic principles work.
4. Explore pneumatic gas laws.
5. Apply calculations and equations to basic pneumatic circuits.
6. Interpret pneumatic symbols.
7. Read schematic drawings.
8. Describe function of pneumatic system components.
9. Design pneumatic circuits.

Credit Details

Lecture: 3

Lab: 0

OJT: 0

MnTC Goal Area(s): None