
SECTION HEADING

MECH 1131: Pneumatic Lab

Description

Pneumatic Lab provides students with skills in plumbing, troubleshooting, and operation of basic pneumatic circuits.

Credits

1

Prerequisite

None

Corequisite

Concurrent enrollment with MECH 1120

Topics to be Covered

1. Basic pneumatic circuits
2. Cylinder sequencing circuits.
3. Air/oil circuits.
4. Dual supply pneumatic circuit.
5. Pneumatic speed control circuits.
6. Rodless cylinder circuits.
7. System pressure and cylinder speed tests.
8. Two-hand safety circuits.
9. Vacuum circuits.

Learning Outcomes

1. Identify and control potential safety hazards and implement safe working practices.
2. Demonstrate the ability to test the basic functions of pneumatic components to determine proper operation.
3. Design and connect pneumatic circuits.
4. Troubleshoot basic pneumatic systems.

Credit Details

Lecture: 0

Lab: 1

OJT: 0

MnTC Goal Area(s): None