

MNT-240 Industrial Equipment Troubleshooting

COURSE DESCRIPTION:

Prerequisites: None

Corequisites: None

This course covers the various service procedures, tools, instruments, and equipment necessary to analyze and repair typical industrial equipment. Emphasis is on electro-mechanical and fluid power equipment troubleshooting and repair, including common techniques and procedures. Upon completion, students should be able to troubleshoot and repair industrial equipment.

LEARNING OUTCOMES:

Upon completing requirements for this course, the student will be able to:

1. Recognize and use symptoms to determine probable causes of failure.
2. Select and use tools and test equipment to find faults.
3. Describe troubleshooting methods.
4. Identify and use instruments and meters to diagnose problems.
5. Troubleshoot with (or without) a schematic and documentation.

OUTLINE OF INSTRUCTION:

1. Introduction to troubleshooting
2. Working with Other People
3. Troubleshooting Techniques
4. Aids to Troubleshooting
5. Preparing for Troubleshooting
6. Using Schematics and Diagrams
7. Solving Mechanical Problems
8. Solving Electrical Problems
9. Breakdown Maintenance
10. Planned Maintenance

REQUIRED TEXTBOOK AND MATERIAL:

The textbook and other instructional material will be determined by the instructor to ensure that current, relevant concepts and theories are present.