ILT 162: Solid State Fundamentals

This course provides instruction in basic solid state theory beginning with atomic structure and including devices such as diodes, bipolar transistors, field effect transistors, amplifiers, transistors, operational amplifiers, oscillator, and power supply circuits. Emphasis is placed on the practical application of solid-state devices, proper biasing and amplifier circuit analysis and the use of test equipment of diagnose, troubleshoot and repair a typical solid-state device circuits. This course also provides the opportunity for students to apply the solid-state principals and theories learned in class in the laboratory setting. Emphasis is placed on the practical application of solid-state devices, proper biasing and amplifier circuit analysis and the use of test equipment to diagnose, troubleshoot and repair atypical solid-state device circuits. As needed.

Credits: 3
Transfer Code: Code C
Lab Hours: 4
Lecture Hours: 1
Program: Industrial Electronic Technology
Semester Offered:
Fall
Spring
Summer