

INT 103: AC Fundamentals

NOTE: There is an approved standardized plan-of-instruction for this course. This course provides an in depth study of alternating current (AC) electronic theory. Students are prepared to analyze complex AC circuit configurations with resistors, capacitors, and inductors in series and parallel combinations. Topics include electrical safety and lock out procedures, specific AC theory functions such as RLC, impedance, phase relationships, and power factor. Students will be able to define terms, identify waveforms, solve complex mathematical problems, construct circuits, explain circuit characteristics, identify components, and make accurate circuit measurements using appropriate measurement instruments. They should also be able to perform fundamental tasks associated with troubleshooting, repairing, and maintaining industrial AC systems. This is a CORE course.

Credits: 3

Lab Hours: 1

Lecture Hours: 2

Prerequisites:

As required by college.

Program: Industrial Maintenance Technology