The AC/DC Electrical course teaches fundamentals of AC/DC electrical systems used for power and control in industrial, commercial, agricultural, and residential applications using virtual training technology. Students learn industry-relevant skills included in the subject areas listed below.

Virtual Manufacturing Training Course features:
- Pre- and post-training knowledge and skills assessments
- Relevant content informed by manufactures
- Virtual training systems which allow students to replicate hands-on skills
- Content available 24-hours per day
- Two 30-minute coaching sessions with a member of the Columbus State team
- Start and stop as your schedule permits

The course is divided into 6 individual learning activity packets or LAPs. Each topic, on average, takes 2 ½ hours to complete. Students use virtual training simulators to demonstrate what they have learned. As an example, in the Electrical Measurement LAP, students learn to describe the function of two Multimeters: Analog and Digital, then use a virtual DMM to Measure the Voltage of a Point Referenced to Ground.

AC/DC ELECTRICAL FUNDAMENTALS

The AC/DC Electrical course teaches fundamentals of AC/DC electrical systems used for power and control in industrial, commercial, agricultural, and residential applications using virtual training technology. Students learn industry-relevant skills included in the subject areas listed below.

- Basic Electrical Circuits
- Electrical Measurements
- Circuit Analysis
- Inductance and Capacitance
- Combination Circuits
- Transformers

AC/DC Electrical Fundamentals is the base that future learning will be built.