

## **Manufacturing Skills Training**

### **Applied Industrial Electricity**

**This 24 hour course is designed to provide participants\* with the skills necessary to safely work with and troubleshoot electrical systems and motor controls.**

#### **Instructional topics:**

- Electrical Safety, Lockout/Tagout, NFPA-70E
- Test Equipment
- DC & AC Circuits
- Electrical Symbols & Schematics & Documentation
- Circuit Protection
- Transformers
- Power Supplies
- Solenoids
- AC and DC Motors
- Signal Devices
- Control Devices
- Motor Starters and Protection / Electronic Drives
- Troubleshooting Control Circuits

#### **Lab Exercises:**

- Proper use of Test Equipment
- DC Circuits
- AC Circuits & Reactive Devices
- Print Reading
- Transformer wiring and loading
- DC motors
- AC Motors
- Photo eye and proximity switch properties and setup
- Building and troubleshooting conventional motor starting circuits

\*Employees participating in this training must be familiar with industrial equipment.