

## **Manufacturing Skills Training**

### **PLC Level 1: LOGIX 5000**

**This 36-hour course provides participants\* with the practical skills to service and troubleshoot Allen-Bradley Control Logix Automation Controllers.**

#### **Instructional topics:**

- Evolution of PLCs
- PLC Components and assembly
- Understanding Inputs and Outputs.
- The CPU
- Understanding Tag Based Memory
- I/O Configuration
- Using RSLinx Software
- Using RSLogix Software
- Understanding the Ladder Instructions
- Documentation
- Control Schemes
- Troubleshooting

#### **Lab Exercises:**

- Assembling and commissioning a PLC
- Communicating with PLC using RSLinx software
- Connecting to a PLC, uploading and downloading programs using RSLogix software
- Program documentation
- Using basic instructions
- Using timer and counter instructions
- Using file move and compare instructions
- Using math instructions
- Monitoring inputs and outputs
- Configuring Remote I/O
- Build and troubleshoot an electronic drive control process

\*Applied Industrial Electricity training or equivalent skills required for this class.