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 Studio 5000 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
- Using Sequencer 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.