

Manufacturing Skills Training

PLC Level 1 SLC 500

This 36-hour course provides participants* with practical skills to service and troubleshoot Allen-Bradley SLC 500 Programmable Logic Controllers.

Instructional topics:

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

Lab Exercises:

- Assembling and commissioning a PLC
- Communicating with PLC using RSLink 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
- Build and troubleshoot an electronic drive control process
- Build and troubleshoot a flow/level control process

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