

Manufacturing Skills Training

PLC Level 1 Siemens S7

This 36 hour course provides participants* with practical skills to service and troubleshoot Siemens S7 family of Programmable Logic Controllers.

Instructional topics:

- Evolution of PLCs
- PLC Components and assembly
- Understanding Inputs and Outputs.
- The CPU
- Memory Organization
- I/O Addressing
- Using Step 7 Software
- Ladder Instructions
- FBC Instructions
- STL Instructions
- Documentation
- Control Schemes
- Troubleshooting

Lab Exercises:

- Assembling and commissioning a PLC
- Communicating with PLC using Step 7 software
- Opening/Creating/ and Editing projects
- Program documentation
- Working with LAD, FBD, and STL
- 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.