

Siemens S7-1200 PLC

Program Description: A Programmable Logix Controller (PLC) Competency Certificate prepares the individual to install, maintain, and troubleshoot industrial grade PLC systems.

PLC Basics	3-Day Course / 24 Contact Hours
<p>Day 1</p> <ol style="list-style-type: none"> 1. S7-1200 Hardware 2. TIA Portal Software 3. Introduction to S7-1200 Ladder Logic Programming 4. Download / Monitoring PLC Project Files 5. PLC Logic 6. Documenting a Project <p>Day 2</p> <ol style="list-style-type: none"> 1. S7-1200 Memory Organization 2. Program Scan 3. IEC Timing Instructions with Data Blocks 4. IEC Counting Instructions with Data Blocks 	<p>Day 3</p> <ol style="list-style-type: none"> 1. MOV Instruction 2. Introduction to Data Types 3. Introduction to Siemens HMI Basics / Comfort Panels
PLC Intermediate	3-Day Course / 24 Contact Hours
<p>Day 1</p> <ol style="list-style-type: none"> 1. PLC Numbering 2. Basic Math Instructions 3. Comparator Instructions 4. Searching for Addresses / Tags 5. Forcing I/O <p>Day 2</p> <ol style="list-style-type: none"> 1. Organizational Blocks 2. Data Blocks 3. Functions 4. Function Blocks 5. System Memory Byte 	<p>Day 3</p> <ol style="list-style-type: none"> 1. Analog Signals 2. Scaling Analog Input / Output Signals 3. VFD Control Using Analog Signals for Motor Speed Control
PLC Advanced	3-Day Course / 24 Contact Hours
<p>Day 1</p> <ol style="list-style-type: none"> 1. PWM / Pulse Width Modulated - Signal 2. Configure S7-1200 PLC Outputs as Pulse Generators 3. Configure / Using CTRL_PWM Instruction 4. Temperature Control Application <p>Day 2</p> <ol style="list-style-type: none"> 1. S7-1200 Technology Objects 2. Configure Motion Control Object for Stepper Motor Control 3. Axis Commissioning 4. Motor Control Function Block Instructions 	<p>Day 3</p> <ol style="list-style-type: none"> 1. Stepper Motor Application, Continued 2. S7-1200 Command Table Function Block Instructions 3. Configure Siemens HMI to Control Stepper Motor Application

Location: Northwest State Community College, Archbold, Ohio

For More Information:

Email Tori Atkinson at tatkinson@northweststate.edu or call 419-267-1219

Dates Offered: TBD

Per Person Fee: \$3,400

How to Register: Online at

<https://register.trainwithcts.com> or email CTS at cts.archbold@northweststate.edu or call Tori Atkinson at 419-267-1219

Refund/Cancellation Policy: You can withdraw from any class up to 3 days before its start. No refunds are issued for no-shows, substitutions are welcome.

Want to receive \$2,000 reimbursed to you per employee you send?

Apply for TechCred:

Visit: techcred.ohio.gov
Or trainwithcts.com/TechCred
Or call Tori Atkinson for more information on how to do this.