



Snead State Community College

Programmable Logic Controller Course

PLC I

This course is designed to allow students in a manufacturing or service environment to become familiar with basic PLC operation, application and programming. This course will cover hardware components, number systems and codes (decimal, binary, octal, etc.) and fundamentals of logic and basic RS logic programming language and hands-on lab experiences with Allen Bradley SLC 500 PLC. These will be used throughout all of the classes.

PLC II

This course is designed to allow students in a manufacturing or service environment to become familiar with developing the fundamentals of PLC wiring diagrams and ladder logic programs. The course will cover relays, latching and unlatching relays, input and output control devices, timers (on delay, off delay, retentive and cascading) and counters (up, down and cascading). The hands-on lab experiences will enhance the student's abilities to troubleshoot and repair these components.

PLC III

This course is designed to allow students in a manufacturing or service environment to become more familiar with troubleshooting PLC's utilizing the input and output functions and components. The course will cover math instructions, sequencer and shift register instructions and PLC installation practices, editing and troubleshooting. The hands-on lab experiences will sharpen the student's abilities to upload, debug and troubleshoot equipment utilizing PLC's.

PLC IV

This course is designed to allow students in a manufacturing or service environment to become proficient in PLC programming and troubleshooting. The course will consist of learning process control, data acquisition, computer controlled machines (CNC) and robotic systems and processes and how they are controlled by PLC's. This course will have intense hands-on lab experiences that will greatly enhance the students ability to troubleshoot these systems.

Cost: \$2,400, includes textbooks

Instructor: Steve Dodd

To register contact: Workforce Development Division

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