

# Northwest Mississippi Community College Workforce Training Courses 2010

## PLC 500 Training Program 112-Hour Program

This program consists of four courses designed to teach participants the fundamentals of programming, troubleshooting, and communications using Rockwell RSLogix 500 software and Allen-Bradley SLC 5/03 controllers. Class will include lecture and hands-on labs. Course fee includes textbook.

Course I is a basic programming class that includes: electrical safety and procedures; sensing and actuating field devices; ladder logic and electrical continuity; binary and hexadecimal number systems; file and addressing structure; creating and opening projects; downloading and uploading projects; input, output, and branch instructions; sinking and sourcing devices; online project monitoring; and timer and counter instructions.

Course II is a troubleshooting class that includes: safety for people and machines, field wiring AC and DC, troubleshooting with and without laptop, monitoring data table files, find, go to, faults, force, and tool bars.

Course III is a communications class that includes: network communications (PLCs to PLCs, operator panel to PLC, operator panel to multiple PLCs, multiple operator panels to multiple PLCs), messages, and other programming options.

Course IV includes: advanced operator panel (PanelView) buttons, indicators, displays, gauges, trending, alarms, etc. and analog configuration, engineering units, coordinate variable inputs with operator panel display.

Class fee: \$500.00 fee if participant registers for complete program (includes book)  
**or**  
\$125.00 per 28 hour class plus \$100.00 book fee if participant does not register for the complete program

Location: Senatobia Campus – Berry Building  
Dates: Tuesday and Thursday (class will begin January 19 and end May 6)  
Time: 3 p.m. – 6:30 p.m.  
Registration deadline: January 12, 2010

## Codeology (National Electric Code) 30-Hour Course

This class is designed for the industrial electrician to include a thorough coverage of the arrangement, structure, and language used in the National Electric Code. Interpretation of key code concepts develops an in-depth understanding of the NEC to aid in safer electrical installations. Participants will learn how to apply the different sections of the NEC to their needs to include the following sections: General, Plan, Build, Use, Special, Communication Systems, Tables, and Annexes. Course fee includes textbook. **Participants will be responsible for providing their own 2008 National Electric Code book or 2008 NEC handbook.**

Class fee: \$225.00 (includes Applied Codeology book)  
Location: Senatobia Campus – Berry Building  
Dates: Monday and Wednesday (class will begin January 20 and end February 22)  
Time: 3 p.m. – 6 p.m.  
Registration deadline: January 12, 2010

## Introduction to SolidWorks 36-Hour Course

SolidWorks is a 3 dimensional computer design program used in industry to create computer based product models and prototypes. SolidWorks utilizes a parametric feature based approach where the user generates primitive shapes or geometry and then assigns values and constraints of the design parameters to construct the computer model. From the computer model, the user can easily make design evaluations, modifications, and produce technical drawings. This course is intended as an introduction to SolidWorks whereby the participants will gain the basic understanding and foundations of its user interface, sketching, part modeling, and various assembly applications. This course will be the foundation on which further instruction and course work into higher level operations will be built upon. Class will include lecture and hands-on labs.

Class fee: \$225.00 (includes book)  
Location: Senatobia Campus – Tech 1  
Dates: Tuesday and Thursday (class will begin February 2 and end April 20, class will not meet March 16, 18, April 1, 13, or 15)  
Time: 6 p.m. – 8 p.m.  
Registration deadline: January 12, 2010