

# INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS

**ATN** is offering an introduction to programmable logic controllers (PLCs) and explaining the different components of a PLC system. It includes basic ladder logic instructions and how they are used and programmed. The course also shows how to configure the communication's drivers for RSLogix 500™ and RSLinx™ and teaches how to use the programming software to obtain information from the process and also from the PLC itself. It gives general guidelines on troubleshooting and maintaining a PLC system. The course emphasizes hands-on laboratory exercises using PLC trainers.

## Upon completion of this course you will be able to:

- Identify a PLC system and its components
- Identify basic ladder logic instructions and their meaning
- Configure the communications drivers for RSLogix 500™ and RSLinx™
- Use the programming software to monitor input and output devices
- Understand the diagnostics information provided by the programming software
- Perform general practices for maintaining and troubleshooting a PLC system

## You will learn:

- Overview of Programmable Logic Controllers (PLCs)
- Numbering Systems
- Fundamentals of Logic
- Communications
- PLC Programming
- Maintenance and Troubleshooting

*The course material will be presented using the Allen-Bradley SLC 5/03 system with Rockwell Software RSLogix 500 programming software*

## **ATN — Thomasville**

Located on the campus of Alabama Southern Community College  
30755 Highway 43 South  
Thomasville, AL 35784  
334.637.3164  
[www.atn.org](http://www.atn.org)



**Alabama  
Technology  
Network**

**MAKE THINGS BETTER...IN YOUR BUSINESS**