

HVAC Programmable Logic Controllers

This course teaches the fundamentals of how to use the Allen Bradley software to edit, document, maintain, and troubleshoot the Allen Bradley PLC. The goal of this course is to give the HVAC technician a stronger understanding of the strengths, limitations, and workings of the Allen Bradley PLC. The course consists of two days of classroom instruction and one day of hands-on training.

I. Basic Programmable Controller Review

- PLC Components
- PLC Addressing
- PLC Ladder Logic Basics

II. Configuring “SMART” Modules (Functional Overview)

- Analog Input Modules
- Analog Output Modules
- Thermocouple Modules

III. PLC Communications

- Communications on the Data Highway +
- Communication Via the Ethernet Port
- Communication with PLC's in Adapter Mode

IV. Advanced Editing

- Advance Searching
- Using the AFI Instructions

V. Process Controls and PLCs

- Control and Analog Outputs of PLCs
- Feedback Loops Using PLCs
- Tuning Loops With PLCs

VI. Labs