## **★ BRING US TO YOUR FACILITY ★**

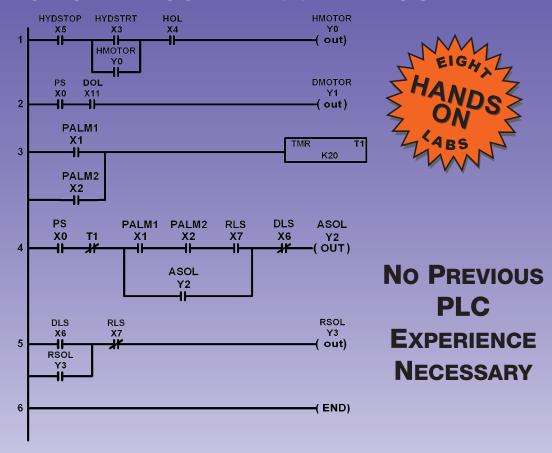
Or Check Our Website For Classes Near You

ONE DAY OF INTENSIVE TRAINING

# PROGRAMMABLE LOGIC CONTROLLERS

using

# DirectSOFT6™ Software and Automation Direct DL105™ PLCs



"Took away the intimidation factor from PLCs and ladder logic. Made it seem easy and straight forward as it actually is. Makes you realize that there is no magic involved, it is just a machine."

Roger Stephens – Monsanto



Training that "WORKS" <sup>™</sup>

(502) 252-9128 or www.impactu.com

# **COURSE OUTLINE**

#### **EQUIPMENT USED**

Automation Direct DL105™ PLCs DirectSOFT6™ Programming Software Laptop Computers Voltmeters Text and Lab Manual

#### **GENERAL TOPICS**

#### **PLC Sections**

Power Supply
Central Processing Unit (CPU)
Memory
Data
Program
Input Section / Output Section

#### **Scanning**

How Programs Are Executed Data Memory Operation

#### **Input and Output Boards**

Types
Functions
Termination
Isolation
Translation
Threshold Detection
Indication

#### **LADDER LOGIC TOPICS**

AND, OR, NOT

Logical Continuity Reading Ladder Logic Instructions

Input/Output Internal Coils Set/Reset Timers/Counters

#### HANDS-ON LABS

**Using Automation Direct DL105™** 

PLCs and Direct SOFT6™ Programming Software

#### **Troubleshooting**

CPU Faults
Power Problems

#### Instructions

Input/Output Series/Parallel Internal Bit (Software Relay) Set/Reset (Software Latching Relay) Timers Counters

#### **TROUBLESHOOTING TOPICS**

Diagnostics
Data Memory Monitoring
Search Commands
Input Side

Switches Wiring Testing Input Boards

#### **Output Side**

Loads Wiring Testing Output Boards

#### **Central Processing Unit**

Visual Indicators Faults, How To Clar Them Lost Programs

#### **Power Supply**

Visual Indicators Checking Voltage Levels Checking Fuses

#### **Using the Ladder Logic to Troubleshoot**

Troubleshooting With the Program Displaying Rungs Searching for Problems

"The instructor was fantastic. It was well worth my time."

Jeffrey Craig - Caterpillar Inc.

### **BRING ANY OF OUR CLASSES TO YOUR FACILITY**

(502) 252-9128 or www.impactu.com

<sup>\*</sup> AutomationDirect DL 105<sup>TM</sup> and DirectSOFT6<sup>TM</sup> are registered trademarks of AutomationDirect