

3 Days Intensive Training

2011 Locations

Columbus, OH
Aug 2 – 4, 2011

Cincinnati, OH
Aug 9 – 11, 2011

Cleveland, OH
Aug 23 – 25, 2011

Toledo, OH
Sept 13 – 15, 2011

Grand Rapids, MI
Sept 20 – 22, 2011

Lansing, MI
Oct 4 – 6, 2011

Troy, MI
Oct 11 – 13, 2011

Buffalo, NY
Oct 18 – 20, 2011

Syracuse, NY
Oct 25 – 27, 2011

Albany, NY
Nov 8 – 10, 2011

Burlington, VT
Nov 15 – 17, 2011

Portland, ME
Dec 6 – 8, 2011

Manchester, NH
Dec 13 - 15

★ HANDS ON ★ ★ HANDS ON ★

Programmable Logic Controllers

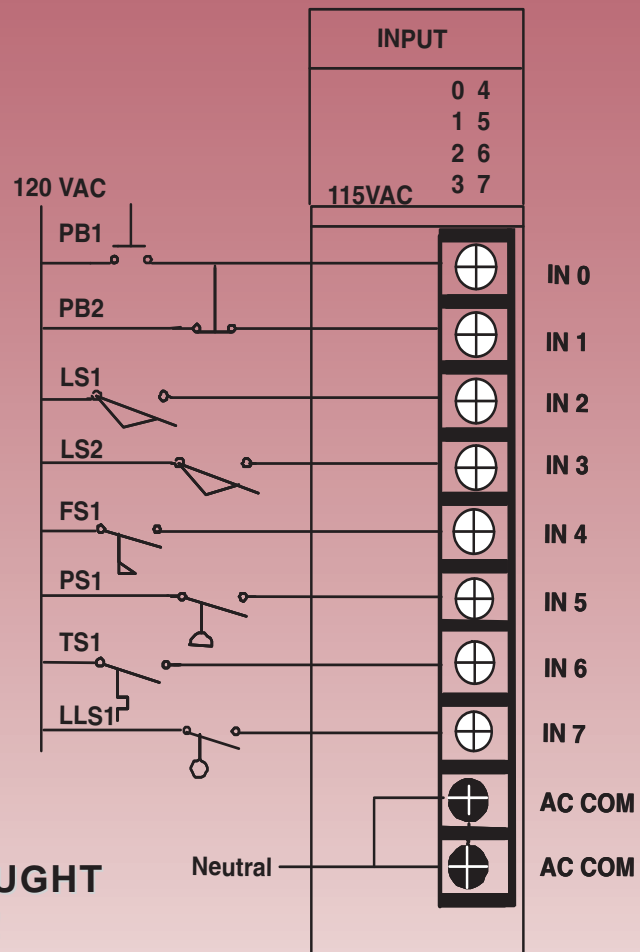
using

Allen-Bradley SLC 500™ PLC's and RSLogix 500™ Software

"I have attended lots of training classes throughout my 32 years as an electronics tech. This class tops them all."

Rudy S Gaddi - Puget Sound Naval Shipyard

28 Hands-On Labs Includes Analog I/O



THIS CLASS CAN BE TAUGHT AT YOUR FACILITY!

* Not affiliated with Rockwell Automation

To Register
800-858-6879
or
www.impactu.com



Impact
Training Services, Inc.

Training that "WORKS"™

"I've never rated a seminar all excellent until this one. My first ever exposure and I really enjoyed it. A no-nonsense approach."

Ron Rennie - AMF Bowling Products Inc

PROGRAMMABLE LOGIC CONTROLLERS

WHO WE ARE

As a company, we are dedicated to providing practical, working solutions to the problem areas of industry. We represent no manufacturers and will not subject you to any sales pitches. What we offer is quality technical training that works.

OUR INSTRUCTORS

Your instructor will be knowledgeable, enthusiastic, personable and effective. You evaluate them at the end of each class. We do not use contractors. All of our instructors are full time employees and have a vested interest in delivering a quality product. Each is well versed in the subjects they teach, has received extensive on-the-job training and follow the same course lesson plan so you receive identical information regardless of who teaches the class.

WHO SHOULD ATTEND

This class is designed for maintenance and engineering personnel, operators, supervisors and managers. There are no prerequisites for this course.

CLASS TIMES

7:30 am	Registration
8:00 am	Morning Session Begins
11:30 - 12:20 am	Lunch (on your own)
12:30 pm	Afternoon Session Begins
4:15 pm	Post evaluation (Day Three)
4:30 pm	Class Ends

SUBSTITUTION OR CANCELLATION

Cancellation made SEVEN days prior to the seminar date will receive a full refund. Substitutions can be made at any time. Cancellations made less than SEVEN business days will be issued a credit memo to be used within two years. Registered attendees who fail to show up or have not given proper notice of cancellation will not receive refund or credit.

REPEAT CUSTOMERS

3M Touch Systems • ABB, Inc. • Abbott Diabetes Care • ABC Packaging • Advance Foods • AES • AGC Automotive • Airite • Allied Signal • Alcoa Power Generating • ARCO • AT&T • BOC Gases • BP Oil • Bridgestone Firestone • Cargill • Caterpillar • Champion International • Chevron • Chrysler Clorox • Coca-Cola • Cooper Tire & Rubber • Dana Corp • DART • Delphi Automotive • Dow Corning • Delco Remy America • Dupont • Eaton Corp ENSR • Exxon Mobil • FedEx • Ford • Frito Lay • GAF • General Electric • General Motors • Genesee Power Station • Georgia Pacific • Goodyear Hallmark Cards • Hewlett Packard • Honeywell • IBM • International Paper • Johnson Controls • Kellogg • Lucent Technologies • Mobil • Moody AFB Monsanto • Nabisco • Oxy USA • PackerWare • Parker Hannifin • Pepsi Cola • Perdue Farms • Pepperidge Farms • Phillip Morris • Playtex • Pillsbury Pratt & Whitney • Proctor & Gamble • PSEG • REA Contracting • Ralston Purina • RJ Reynolds • Rockwell Automation • Sara Lee • Shell Oil Sherwin Williams • Siemens • Smurfit Stone • Teksid Aluminum • Texas Instruments • Timken • Trammel Crow • TRW Tyson Foods • United Technologies • US Airforce • US Army Corp of Engr • US Filter • Walt Disney • Westinghouse • Wheelabrator • Xcel Energy

COURSE OBJECTIVES

Upon successful completion, you will be able to:

- ▶ Use RSLogix500™ software to write/edit/download/monitor programs
- ▶ Troubleshoot a PLC system using the program and a voltmeter
- ▶ Demonstrate an understanding of widely used I/O modules
- ▶ Use and explain common ladder logic instructions
- ▶ Establish communications with SLC™ and MicroLogix™ controllers
- ▶ Explain how analog I/O works

You will be able to immediately apply what you have learned on the plant floor

TRAINING AT YOUR FACILITY

Bring this or any of our other electrical/electronic training programs to your facility.

Call (800) 858-6879

You may also visit us on the web at:

www.impactu.com

COURSES OFFERED

- **Reading Electrical Drawings**
- **Electrical Safety – with Arc Flash**
- **Industrial Electricity**
- **Troubleshooting Electrical Controls**
- **Programmable Logic Controllers: Maintenance and Troubleshooting**
- **Programmable Logic Controllers: Using Allen-Bradley SLC 500™ PLCs and RSLogix 500™ Software**
- **Programmable Logic Controllers: Using Allen-Bradley ControlLogix™ PLCs and RSLogix 5000™ Software**

* Not affiliated with Rockwell Automation

THIS CLASS CAN BE TAUGHT AT YOUR FACILITY

"This is an excellent class. It fills in the blanks to a lot of questions I had. It is very in depth, unlike other courses that gloss over topics. I would highly recommend this class."

Wilson Rivera - Schick

28 "HANDS-ON" LABS! COURSE OUTLINE

Group size on our simulators never exceeds two persons

BEGINNINGS

INPUTS, OUTPUTS
CPU, MEMORY
SCANNING

BASIC INSTRUCTIONS

XIO, XIC, OTE
RELAY TYPE INSTRUCTIONS
TIMERS
COUNTERS

DATA FILES

INPUT, OUTPUTS
CPU, MEMORY
SCANNING

RSLOGIX 500™ BASICS

CONFIGURING SYSTEMS
WRITING PROGRAMS

RSLinx™

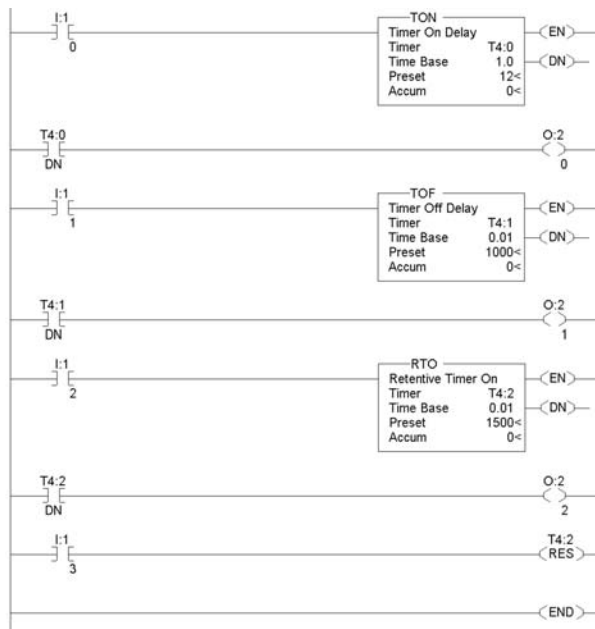
COMMUNICATIONS PARAMETERS
CONFIGURING DRIVERS

COMMUNICATIONS

CONNECTING VIA THE LAPTOP
DOWNLOADING, UPLOADING

PLC MODES

RUN, PROGRAM
TEST MODES, REMOTE



REGISTER/FILE INSTRUCTIONS

MOVE
SEQUENCER

ANALOG

ANALOG SIGNALS
VOLTAGE, CURRENT
INPUT/OUTPUT BOARDS
DATA HANDLING/SCALING

DC BOARDS

SOURCING /SINKING DEVICES
INTERFACING TO PLC

SUBROUTINES

PURPOSE
HOW THEY WORK
SUBROUTINE INSTRUCTIONS

TROUBLESHOOTING

USING A VOLTMETER
INPUT BOARDS
OUTPUT BOARDS
FIELD DEVICES/WIRING
CLEARING CPU FAULTS
STATUS REGISTERS

SOFTWARE TOOLS

ONLINE EDITING
FORCING I/O
SEARCH COMMANDS
DOCUMENTING PROGRAMS

And MUCH, MUCH MORE!

**LIMITED
CLASS
SIZE**

Copyright and Trademark Information

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Register Today! 800-858-6879 or www.impactu.com

In our
16th
year!

★ HANDS ON ★ ★ HANDS ON ★

THREE DAYS OF INTENSIVE TRAINING

PROGRAMMABLE LOGIC CONTROLLERS

Using

Allen-Bradley SLC 500™ PLC's and RSLogix 500™ Software



Impact

Training Services, Inc.

Training that *WORKS*™

PO Box 532

Bloomfield, KY 40008

Mailroom: If undeliverable as addressed,
please route to your electrical maintenance or training supervisor

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**“HANDS-
ON”**

Get something you can actually use for your training \$\$\$

THIS CLASS CAN BE TAUGHT AT YOUR FACILITY

**“HANDS-
ON”**

FOUR WAYS TO REGISTER:

Seminar Fee:
\$1249
per person

- 1) **Internet** www.impactu.com
- 2) **Fax** (502) 252-8060
- 3) **Phone** (800) 858-6879
- 4) **Mail** this form to: Impact Training Services, Inc.
PO Box 532, Bloomfield KY 40008

**CCR
REGISTERED
CAGE CODE
4C510**

Seminar City: _____ Date: _____ Authorizing managers name: _____

Attendees: Name: _____

Name: _____

Name: _____

Name: _____

Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: () _____ Fax: () _____

Check is enclosed for \$ _____

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