

AutomationDirect

PLC

TRAINING COURSES

InterConnecting Automation Inc.



AutomationDirect PLC Basic Training

Course Description and Schedule 2017-2018

Who should attend?

Manufacturing engineers, industrial engineers, plant operations managers, maintenance or any personnel involved in the planning, design and set-up of manufacturing facilities, or personnel who encounter control systems in their course of daily functions. This course will benefit personnel who might be programming, installing equipment, maintaining equipment, purchasing or implementing cost reduction and automation programs, or maintaining and troubleshooting PLC-based equipment.

What are the benefits?

- Offers exposure to state-of-the-art PLCs to keep engineers proficient
- Provides experience to your staff that allows them to install and troubleshoot PLCs
- Offers information for management to use in daily operations to make production more flexible, reliable, productive and profitable

“Finally, an instructor who has practical work experience. I feel we got our money’s worth and then some.”

Jerry Oven
Project Electrician

“I have been to many trainings in the past ten years, and yours is the best of all.”

Pierre Doucet
Technical Representative
Electro-Roberge, Inc.

“The knowledge gained immediately allowed us to purchase and program three Koyo PLCs for high service pump control. We first programmed them using ladderlogic and then wrote them using stage instructions, which worked better for us during start up and debugging. This effort would not have been possible without your class.”

Robert Karrels
Instrumentation Supervisor
West Cost Regional Water
Supply Authority

“The PLC course presented by Interconnecting Automation Inc. has enabled me to develop programming for our test facility. This has made data acquisition very inexpensive with the use of AutomationDirect products. The course cleared up a lot of questions about the use of memory to make ladder programming shorter.”

JWilliam H. Dobbs, Jr.
Electrical Engineering Dept.
C.H. Heist

ONLY
\$879
PER PERSON



NEW!

Class price also includes **FREE** 60-day subscription to **DirectLOGIC PLC** online training video library!



Fee includes:

- Continental breakfast
- AutomationDirect PLC User Manual
- Training manuals
- 60-day subscription to online videos

In order to assure registration, all class fees must be received prior to the scheduled class date.

Hotel rooms are available at a discounted rate, however, reservations must be made two weeks prior to date of class.



InterConnecting Automation Inc.

3821 S. 93rd Street, Milwaukee, WI 53228

Phone: 414-425-8348 Fax: 414-425-8363

Web site: www.InterConnectingAutomation.com

Course Syllabus

Day One

- Introduction of **AutomationDirect** PLC family
- Operation of **AutomationDirect** products
 - What is a CPU?
 - What is an input/output module?
 - What is a specialty module?
 - Sinking vs. sourcing modules
- Designing and laying out a project
 - Power budget Special bits
 - I/O mapping Retentive ranges
 - V-memory
- Introduction to **DirectSOFT**
 - What is it?
 - Online and offline programming
 - Entering and exiting
 - Editing a ladder program
 - The launch pad
 - Cut and paste
 - Configuring **DirectSOFT**
 - Basic ladder functions
 - Establishing a link
 - Control relays
 - Different menus of **DirectSOFT**
 - Counters
 - Timers

Day Two

- **DirectSOFT**
 - Review simple ladder Program shift register
 - Advanced ladder functions
 - Program bit math
 - Program masking bits
 - Analog input/analog output
 - Binary to BCD conversions
 - BCD to binary conversions

Day Three

- **DirectSOFT**
 - Drum sequencers
 - Troubleshooting using **DirectSOFT**
 - PLC diagnostics
 - Watch windows
 - PLC status screens
 - Remote I/O
 - Specialty cards

Course Fee:
\$879.00 per person
 Includes FREE 60-day subscription to **DirectLOGIC** PLC online training video library!

2017 - 2018 Schedule

Sept 12-14, 2017
 Oct 10-12, 2017
 Oct 24-26, 2017
 Dec 5-7, 2017

Atlanta GA*
Louisville KY
Portland OR
Atlanta GA*

Feb 13-15, 2018
 March 6-8, 2018
 March 20-22, 2018
 April 10-12, 2018
 May 8-10, 2018

Dallas TX
Orlando FL
Irvine CA
Chicago IL
Atlanta GA*

*Courses in Atlanta are held near AutomationDirect headquarters and will include a lunch and tour of the headquarters.

Please visit our Web site for an updated list of future class dates!

www.InterConnectingAutomation.com

About the Instructor: Doug Bell

Planned and coordinated automation of a Milwaukee manufacturing facility.

Designed from scratch the automation portion of a new automated can plant using AutomationDirect products exclusively.

Designed electronic control systems for more than 45 facilities worldwide using multiple vendor PLC products.

Developed and implemented a variety of cost and labor-saving equipment.

20 years experience with industrial electronics, including 17 years of PLCs.

Wide variety of applications experience, including electronic feeder controls, HVAC controls, automated test stations, coating lines, printing lines, coordinated drive systems, motion systems, high-speed applications, communication systems, PC-based control solutions and HMI systems.

Registration Form

(Act now - seating is limited)

Name _____ Company _____

Title _____ Address _____

Telephone _____ Fax _____ City _____ State _____ Zip _____

E-mail address _____ Location/date of class _____

Method of payment

- Check
 Purchase Order
 VISA
 Mastercard
 American Express

Credit Card or P.O. # _____

Exp. Date _____

CSV Security Code _____

(Visa/Mastercard - Last three digits of account number panel on card back, American Express - Four digit code on the front of the card just above and to the right of your main credit card number.)

Signature _____



Reply by FAX: 414-425-8363
 Reply by mail: 3821 S. 93rd Street
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 E-mail us at: info@InterConnectingAutomation.com
 Web site: www.InterConnectingAutomation.com

ONSITE TRAINING AVAILABLE
Customized to fit your needs. Call for details.

All class fees must be received prior to the scheduled class date.

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