

# AutomationDirect PLC

TRAINING  
COURSES

InterConnecting Automation Inc.

ICA

## AutomationDirect CLICK PLC Training

### What is CLICK?

The CLICK PLC family of components offers practical features in a compact yet expandable design, with easy-to-use FREE programming software.

- Analog I/O modules, discrete combination I/O modules, and "System Monitor" feature
- A powered CLICK CPU unit can function as a complete standalone control system with eight inputs and six outputs.
- For expansion, 24 option modules are available for configurations up to 142 I/O.
- All CLICK CPUs support 8K steps of program memory and 8K words of data memory.
- CLICK Analog CPU modules have built-in analog I/O (2-channel analog inputs and 2-channel analog outputs).
- The CLICK user-friendly programming software features 21 practical relay ladder logic and function block instructions

### What are the benefits?

- Exposure to state-of-the-art PLCs to keep engineers proficient
- Excellent training for maintenance staff enabling them to troubleshoot and install PLCs.
- Introduce management to new tools for use in daily operations that can aid in making production more flexible, reliable, productive and profitable.

Go to [www.TrainingDates.com](http://www.TrainingDates.com)  
for latest scheduled cities and dates.

### Who should attend?

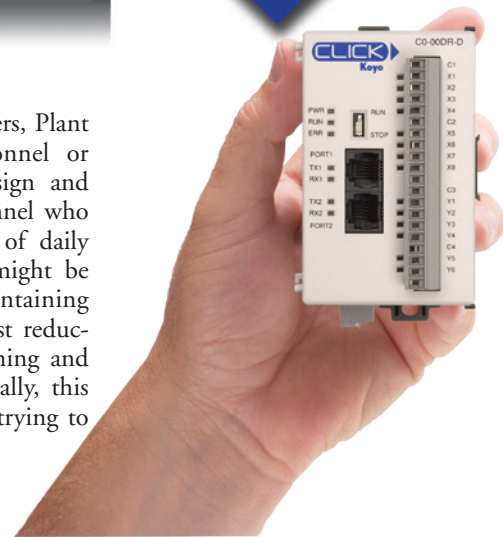
Manufacturing Engineers, Industrial Engineers, Plant Operations Managers, Maintenance Personnel or other personnel involved in planning, design and setup of manufacturing facilities and personnel who encounter control systems in their course of daily functions. It will also benefit those who might be programming, installing equipment, maintaining equipment, purchasing or implementing cost reduction and automation programs, or maintaining and troubleshooting PLC based equipment. Finally, this class will benefit the home user or tinkerer trying to implement their own systems.

### What to Expect?

Plenty of Hands-ON! : There is NO BETTER WAY to learn PLC programming than to dig in and start programming! From DAY ONE you will be learning how to configure, specify, program and troubleshoot a REAL PLC control system! Each work station has an actual PLC complete with functional Inputs and Outputs. The instructor, Doug Bell, draws on his diverse background to make the programming examples reflect REAL-WORLD situations in such a manner that WILL keep you interested throughout the entire course.

**NEW!**

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



### Flexible price options:

- **\$395** Basic Course only
- **\$584** Course plus Basic CLICK Trainer to take with you after the class
- **\$670** Course plus Analog CLICK Trainer to take with you after the class
- **\$875** Course plus CLICK Cmore Micro/Analog Trainer to take with you after the class

### Fee includes:

- **60-day subscription to online videos**
- **Workbooks will be provided for in-class use**

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](http://www.InterConnectingAutomation.com)

# Course Contents

## DAY 1

### INTRODUCTION OF AutomationDirect.com™ FAMILY PLCs

- Operation of Automationdirect.com Products
- What is a PLC?
- What is a Input/Output module?
- Sinking vs. Sourcing modules
- What is a specialty module?
- Designing and Laying Out a Project
- Power Budget
- Special Bits
- I / O Mapping
- Retentive Ranges
- Memory Tables
- Introduction to the Click Programming software
- Configuring the CPU and add-on cards
- Basic Ladder Functions
- Establishing a Link to the PLC
- Control Relays
- Additional Software features
- Counters
- Timers
- Introduction to Math
- Data Types

## DAY 2

- Continue with ladder logic instructions
- Math revisited
- Analog in/out
- Compares
- COPY
- Search
- Advanced Topics
- For/Next loops
- Pointers in PLC
- Basic networking
- Implementation of instructions
- Using Math to create a Ramp, Average, Scaling routines
- Advanced sequential programming using the Drum instruction
- Creating a debounce coil with timers
- Shift registers to track product
- Using the Click PLC as remote I/O

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## 2021 Schedule

June 22-24, 2021

Virtual

August 24-26, 2021

Virtual

Or you can provide your information below and fax or e-mail to us:

## Registration Form

(Act now - seating is limited)

Select option:



(circle one only please)

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

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E-mail us at: [info@InterConnectingAutomation.com](mailto:info@InterConnectingAutomation.com)

Web site: [www.InterConnectingAutomation.com](http://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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