ConveyLinx Training Classes

Basic Course
Learn set-up and configuration of linear ZPA systems using “out of the box” functionality as well as modifications you can do with EasyRoll software.

PLC Integration
Go more in-depth with how to connect external PLCs to ConveyLinx network to enhance ZPA functionality as well as take over complete control of modules with PLC I/O mode.

ConveyLogix Programming
Take PLC I/O mode further with writing custom programs with the ConveyLogix environment. Perform hands-on programming examples using module specific instructions.

What you can expect in any training class

- Each session is about 3 hours long although time can be expanded if you have more detailed questions or a specific application to review.
- The sessions are held primarily in a conference room setting with portable demo equipment used for illustration.
- In general, students do not need to have any items such as laptops. However, they can bring their laptops if desired.
- Depending on the session, some material may be covered in our demo conveyor area for a more realistic hands-on demonstration on real conveyor.
- You can schedule both a Basic course and a PLC Integration/ConveyLogix course for the same day to make best use of your time and expense if desired.
- Students will receive a complementary jump drive with associated documentation and software as applicable depending on course selected and material covered.
- We like to limit the number of students in a class to 6.

Training is provided at no charge. All you need to do is contact us to set-up a date and time and then show up at our facility in Erlanger, KY.

Select from our training class offerings for the best fit for what you need to know – all the way from the basics to advanced.

Courses can be geared towards either the ERSC module or the AI2 module.

PLC courses can be either geared to Rockwell Logix 5000 or Siemens TIA Portal.
# Some of What You Can Expect to Learn ...

## PLC Integration – Siemens TIA Portal
- Review of ConveyLinx Connections and their importance
- Overview of Ethernet subnets and how to apply wisely
- Overview of Connecting to Siemens PLC Documentation
- Understanding the differences between GSDML module files
- How to install GDSML files into TIA Portal environment
- How to install and use Ai2 User Data Type (UDT) option
- How to properly establish a connection to an ERSC module
- How to select the proper connection type for your application
- Work through programming example for ZPA modules
- Work through programming example for PLC I/O mode modules

## ConveyLogix Programming
- Overview of the ConveyLogix software environment
- Overview of available instructions
- Understand the built-in Controller tags
- Programming simple example for reading sensors and running motors
- Understand ERSC specific special instructions and when to use them
- Programming example for servo moves and pulse counting
- Programming example that utilizes upstream/downstream status connections
- Understanding the produce and consume tags and optional built-in structures
- Understanding how to use ZPA tracking capability
- Review of programming example to control a sorting transfer

## Basic Ai2 Course
- Overview of Ai motor technology
- How to connect devices to Ai2
- How to determine power supply requirements and separate power connections
- How to use EasyRoll to Auto-Configure modules for ZPA operation
- How to perform module Auto-Replacement procedure
- How to use EasyRoll to discover modules on a network and change the IP address of most upstream modules
- How to use EasyRoll to modify Sensor Port’s Aux I/O pin signals for hard-wired wake up and line accumulate functions
- How to use EasyRoll to change motor speeds, accel/decel, and brake method
- How to use EasyRoll to monitor motor performance
- How to use EasyRoll to fine tune ZPA zone functionality
- How to use EasyRoll to modify inter-module connections and extension zones
- How to use EasyRoll to modify inter-module connections and extension zones
- How to use EasyRoll to modify sensor Port’s aux I/O pin signals for hard-wired wake up and line accumulate functions
- How to use EasyRoll to control a sorting transfer

## Basic ERSC Course
- How to connect devices to ERSC
- How to determine power supply requirements
- How to Auto-Configure modules for Out of the Box operation
- How to perform module Auto-Replacement procedure
- How to use EasyRoll to discover modules on a network and change the IP address of most upstream modules
- How to use EasyRoll to modify Control Port signals for hard-wired wake up and line accumulate functions
- How to use EasyRoll to change motor speeds, accel/decel, brake method and speed control method
- How to use EasyRoll to monitor motor performance
- How to use EasyRoll to fine tune ZPA zone functionality
- How to use EasyRoll to modify inter-module connections and extension zones

## PLC Integration – Rockwell
- Review of ConveyLinx Connections and their importance
- Overview of Ethernet subnets and how to apply wisely
- Overview of Connecting to Rockwell PLCs
- How to make a Generic Ethernet I/P Connection
- Work through programming example with Generic connected ERSC
- How to install ConveyLinx EDS file
- How to properly establish a connection to an ERSC module
- How to select the proper connection type for your application
- Work through programming example using EDS file structure
- How to Install ConveyLinx Add On Instructions (AOIs)
- Work through programming example using AOIs
- Understanding of EDS and AOI version compatibility

## To get more details or schedule a training class
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