Curriculum Description

ABB Connectivity Training

LV Drives to Rockwell Automation PLC's

Tuition Fee
Channel Partners: $625 per student
Customers (End Users): $3,180 per student

Description
This ABB Connectivity Training provides comprehensive instruction in the setup of ABB drives on EtherNet/IP. The curriculum combines on-line, instructor-led, and hands-on lab exercise training.

The program focuses on Ethernet communications in Drive Composer, an overview of RSLogix5000 and RSLinx software, Add-on Instructions and User-Defined data types, EtherNet/IP and CIP protocols, and Redundant Ring protocols.

Goals
The goal of this program is to provide students with the necessary information, tools and training to appreciate the value of Connectivity Program, connect an ABB drive over EtherNet/IP, recognize CIP messaging between the Drive and the PLC, and comprehend the basics of Ethernet communications and switches.

Training Type and Duration
This curriculum is offered as a classroom Instructor-led hands-on lab exercises over a period of (3) days. Students will complete online prerequisites before attending the classroom training.

Student Profile
The program is intended for ABB authorized channel partners and Regional Application Engineers who purchase a Connectivity demo or who promote the Connectivity Program.

Training locations and scheduling
Please visit the Drives, PLC and Motion Training website for a schedule of upcoming classes at:
http://new.abb.com/service/abb-university/united-states/drives.

Prerequisites
Prior to enrolling in this program participants must have:

- Recommended to complete ABB's Drive Expert training;
- Proficiency with ABB's ACS880 and other drives;
- Familiarity with basic PLC terminology;
- Basic understanding of industrial communication networks;
- Competence using Microsoft Windows® computers and PC-based drive commissioning tools;

Learning Objectives
Upon successful completion of this training, participants will be able to:

- Apply basic troubleshooting of EtherNet/IP connections between ABB Drives and a Rockwell PLC;
- Insert, Modify, and list advantages of 'User defined data types' and 'Add-on Instructions' in a Rockwell PLC;
- Use Rockwell software to connect to an ABB drive;
- List basic features of managed switches, Ethernet networks, and CIP protocols;
- Explain and promote the importance of the Connectivity Program, and associated collateral, to displace sell ABB Drives into existing Rockwell drive markets;
- Use the ABB Connectivity Demo to promote the Connectivity Program to customers.

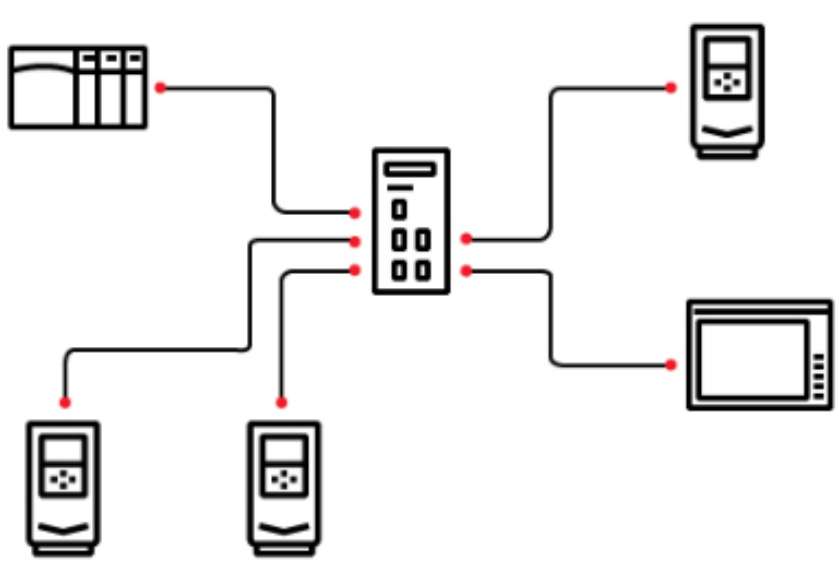
Student Materials
Upon completion of the training each student will receive:

- Student manual with all presentations and exercises.
- A "Connectivity Program Kit" containing …
  - ABB Technical Document "The Basic Guide to Communications"
  - ABB Technical Document "The Add-on Instruction user manual"
  - A variety of Connectivity Program Collateral and marketing materials

Agenda

Day 1 8:00am to 5:00pm	Day 2 8:00am to 5:00pm	Day 3 8:00am to 2:00pm
• Welcome and Introductions • Class Overview • Connectivity Collateral • Understanding CIP protocols and RSLinx/RSLogix • Add-on Instructions and User Defined data types • PLC Demonstration • EtherNet/IP and RSLogix lab	• Review of Day 1 • Troubleshooting Communication Issues/Lab • Ethernet Communications and Drive Composer • Ring Protocols, Managed/Unmanaged Switches • EDS files and DLR setup • Rockwell ADC	• Review of Day 2 • AOI 2.0 Logic Conversion • AOI 2.0 Demo • AOI 2.0 Lab • Summary & Conclusion

Note: Students will have access to ABB provided Laptops with software and tools used in the training at no additional cost. Students who wish to use their own PC's for training are required to purchase, install, and test the current software versions prior to attending a classroom training event. ABB will not troubleshoot student owned PC's.



We speak EtherNet/IP™. Fluently.