

# PLC EtherNet Training System | Hands-On Allen-Bradley ControlLogix Skills



Learning System: 89-EN-AB5500

Amatrol's PLC EtherNet Training System (89-EN-AB5500) teaches the fundamentals and troubleshooting of industrial communications networks using EtherNet/IP. EtherNet/IP has become very popular as an industrial communications network, offering high data transfer speed, flexibility of communicating on both the Enterprise level and the Automation and Control level, and a choice of vendors when purchasing equipment. It is important for technicians to understand different types of networks and their operation to be able to install and troubleshoot not only networks, but also the interconnections to the PLCs.

The main components of the 89-EN-AB5500 are two EtherNet/IP PLC modules and two EtherNet 5-port switches. Learners will use these components with additional required learning systems including the PLC Troubleshooting Learning System - AB ControlLogix (890-AB5500) to practice fundamentals such as: basic PLC operation and programming, motor control, event sequencing, I/O interfacing and testing, process control, and material transfer. Amatrol uses industrial-quality components for durability to stand up to frequent use and so that learners can get

real-world experience with components that they'll actually see in the field.

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## Teach Hands-On Skills

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### Learn to Operate, Install, Configure, and Troubleshoot EtherNet/IP Networks

High-speed networks link sales, purchasing, shipping, production control, and the PLCs on the plant floor together for the rapid exchange of data between departments within a manufacturing facility. This has become an integral part of the production process, so the PLC EtherNet Training System offers learners the opportunity to practice industry-relevant skills including how to operate, install, configure and troubleshoot EtherNet/IP networks.

### Gain Hands-On Experience with Real Industrial Components

The 89-EN-AB5500 features two 1756-ENBT ControlLogix EtherNet/IP modules, two EtherNet 5-port switches, a cable connector set with five patch cables and a cross-over cable, two DIN rail-mounted 24-VDC power supplies and more! Specific hands-on skills that will incorporate these components include: setting the IP address of a 1756-ENBT EtherNet/IP module, converting a project using local I/O into one using Remote I/O, and transferring data between controllers using produced and consumed tags on EtherNet/IP.

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## In-Depth Curriculum

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### Comprehensive PLC EtherNet Curriculum

Amatrol's PLC EtherNet training system features comprehensive curriculum that teaches PLC EtherNet topics, including: industrial communications networks; remote I/O; produced/consumed data and messages; and troubleshooting EtherNet/IP. Within these topics, learners will study objectives like installing a 1756-ENBT EtherNet/IP module in a ControlLogix chassis; creating a ladder routine that uses EtherNet/IP remote I/O; configuring a MSG instruction to transfer data between ControlLogix controllers; and troubleshooting EtherNet/IP network faults.

### Optional eBook Curriculum Available

Amatrol's eBooks look like a real book and allow users to flip between pages with ease. Enhanced with features such as keyword searches and zoom controls that enable a user to quickly locate and view information, these [eBooks](#) are a fantastic learning tool. Amatrol's eBooks are available online and can be used by anyone with access to Amatrol's Learning Management System (LMS). Optionally, if you choose to use your own LMS, these eBooks are SCORM compatible to allow smooth integration into your current training system. Combined with our already extensive library of interactive multimedia titles, which are also SCORM compatible, users can now complete their entire course work online!

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## Additional Info

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### Requires:

- Two (2) Programmable Controller Troubleshooting Workstations ([890-PECB](#))
- Two (2) PLC Troubleshooting Learning System - AB ControlLogix ([890-AB5500](#))
- Computer (see [Computer Requirements](#))

### Utilities:

- See base systems for utility requirements

### Options:

- Programmable Controllers (EtherNet) eBooks
- PLC ControlNet Learning System (89-CN-AB5500)

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