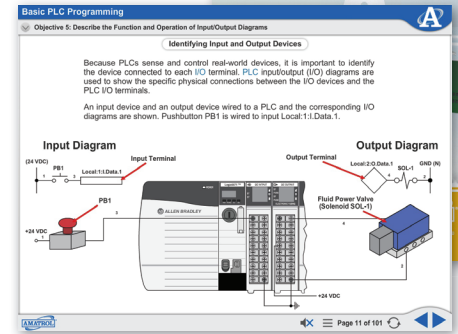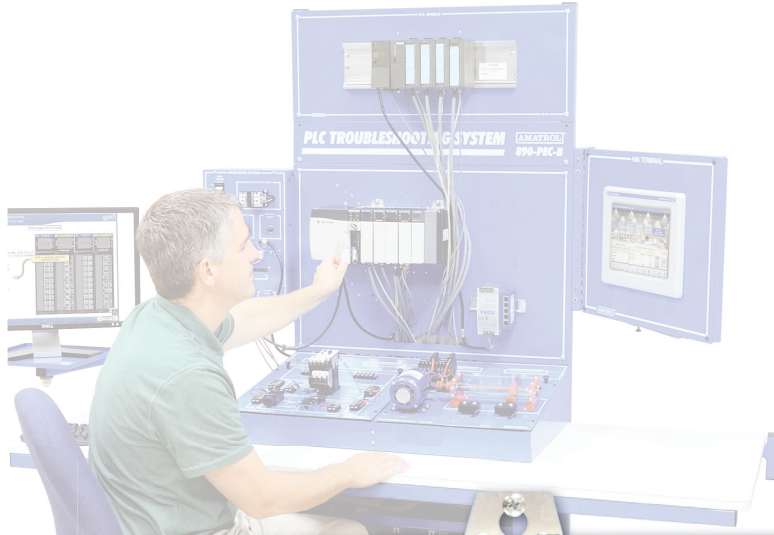# PLC Troubleshooting Learning System - AB ControlLogix

890-AB5500

ET ELECTRONICS

Interactive Multimedia Curriculum and Student Reference Guide

890-AB5500

Learning Topics:

- PLC Operation and Communications
- Basic PLC Programming
- PLC Motor Control
- Discrete I/O Interfacing
- PLC Timer Instructions
- PLC Counter Instructions
- PLC I/O Troubleshooting
- PLC Systems Troubleshooting
- Event Sequencing
- Application Development
- Program Control Instructions
- Math and Data Move Instructions

Amatrol's PLC Troubleshooting Learning System-AB ControlLogix (890-AB5500) teaches troubleshooting, programming, and applications of Allen-Bradley's ControlLogix PLC. The programmable controller is considered by many to be the most important development ever in industrial automation because it is a prepackaged, industrially-hardened computer that can be quickly programmed to control a wide range of industrial processes and machines. The 890-AB5500 adds to the Programmable Controller Troubleshooting Workstation (890-PECB) and requires five 890-Series application stations, the Discrete Wiring Application Station (89-DWS), a computer, and RS Logix 5000 PLC programming software.

The 890-AB5500 includes an Allen Bradley PLC with ControlLogix 5000 processor, an I/O Connector Kit, and a Fault Insertion Engineering Integration and Connector Kit. These components will be used to cover a wide variety of PLC topics, applications, and skills, such as PLC operation, communications, programming, motor control, I/O interfacing, and timer and counter instructions, as well as systems and I/O troubleshooting. The ControlLogix 5000 is a PLC that learners will actually find in automated manufacturing facilities and other industrial settings, so the skills and knowledge that they gain from the 890-AB5500 learning system will be directly applicable to real-world environments.

AMATROL®

Design a PLC Program that Controls a Centrifugal Air Compressor and More!

The 890-AB5500 includes a ControlLogix 5000 PLC, thirty-two 24 VDC discrete inputs and outputs, a PLC programming cable, an I/O connector kit, and a fault insertion connector kit. This system will be used to practice real-world, hands-on skills like: designing a PLC program that uses subroutines to control a motor application with an alarm; testing a PLC discrete output module; troubleshooting PLC power supply problems; designing a PLC program that controls a centrifugal air compressor; and more!

890-AB5500 with 890-PECB and Additional Panels

Curriculum with a Stunning Depth and Breadth of PLC Programming and Troubleshooting Knowledge

The 890-AB5500's curriculum features a stunning depth and breadth of PLC programming and troubleshooting knowledge. Within this curriculum learners will study the function and operation of the OTL and OTU instructions, PLC seal-in logic, a time-driven sequence program, FRD instruction, controller status flags, and more. This multimedia features all of the skills and knowledge included in the printed curriculum but adds stunning 3D graphics, videos, voiceovers of all text, and interactive quizzes and exercises.
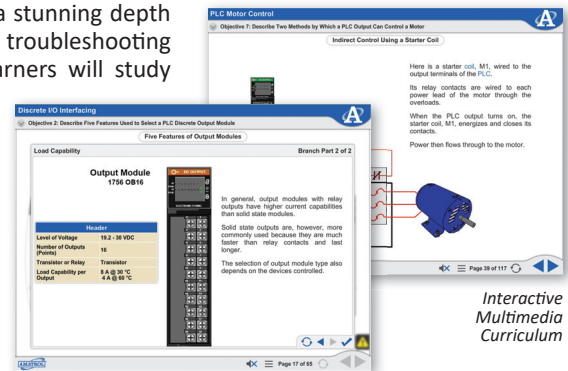
Interactive Multimedia Curriculum

Additional Application Panels

In addition to the 890-PECB and 89-DWS, the 890-AB5500 also requires five additional application panels from the 890-Series. Some of these options include ControlNet (89-CN-AB5500), EtherNet (89-EN-AB5500), Analog Application (89-AS-AB5500), DeviceNet (89-DNAB5500), Process Control (89-PC-AB5500), and PanelView Plus (89-PVAB5500).

89-PVAB5500

Student Reference Guide

A sample copy of the Mastering Programmable Controllers Student Reference Guides is included with the learning system. Sourced from the system's curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfectly-bound book. Student Reference Guides supplement this course by providing a condensed, inexpensive reference tool that learners will find invaluable once they finish their training making it the perfect course takeaway.

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