

Portable PLC Troubleshooting Training - AB CompactLogix | eLearning Course

Programmable Controller Operation - V40087-AA01UEN-E1

Objective 2: Describe the Basic Components of a PLC

CompactLogix and ControlLogix PLCs

ControlLogix PLC

Rockwell offers a wide range of PLC models. The Rockwell Micro800 PLCs are designed for smaller applications. For larger and more demanding applications, Rockwell offers the CompactLogix and ControlLogix PLCs.

ControlLogix PLCs are chassis-style PLCs that are programmed using the Studio 5000 PLC programming software.

CompactLogix PLCs are smaller PLCs that are programmed with Studio 5000. The Studio 5000 software is more robust than the CCW software and is designed for larger industrial applications.

CompactLogix PLC

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eLearning Course: N40087

Amatrol's Virtual Trainer Courseware - Portable PLC Troubleshooting - AB CompactLogix (N40087) provides comprehensive PLC programming and troubleshooting training. Learners will study topics like programmable controller operation, PLC Ethernet communication, basic PLC project elements, PLC motor control, event sequencing, and more!

Combining training in areas such as programming, motor control, and pneumatics, this eLearning course builds strong PLC programming and troubleshooting skills. The interactive multimedia curriculum offers an unmatched breadth and depth of knowledge and skill-building. Only Amatrol can provide this level of training!

In-Depth PLC Troubleshooting Curriculum

Interactive PLC Programming & Troubleshooting eLearning Curriculum

Amatrol's PLC troubleshooting eLearning course covers a variety of PLC programming and troubleshooting topics, including: PLC operation and Ethernet communication; basic PLC program instructions and project elements; PLC motor control; PLC timer instructions; PLC event sequencing; PLC counter instructions; HMI Ethernet operation; and component and systems troubleshooting. Within these topics, learners will study objectives like using Rockwell Studio 5000 software to run and monitor a PLC program; designing a PLC program that controls two constant-speed electric motors; entering and operating a time-driven sequence PLC program; and using status and diagnostic indicators to troubleshoot a PLC.

FaultPro: A World-Class Troubleshooting Teaching Tool

The PLC troubleshooting eLearning course uses [FaultPro](#), the industry's premier program utilizing an electronic fault insertion system that is only available from Amatrol, to implant 30+ faults into the system for troubleshooting. During the learning process, FaultPro allows learners to insert faults in the system as they progress through the step-by-step procedures learning industrial troubleshooting methods. Then, FaultPro can be set to randomly select and insert a fault to test a learner's troubleshooting abilities and prepare them to solve real-world technical problems once they're in the field.

Interactive eLearning with Learning Management System

Highly-Interactive Multimedia Format Appeals to All Learning Styles

Amatrol's PLC troubleshooting eLearning course features interactive eLearning curriculum that integrates various types of learning methods to create an engaging, effective learning experience. Amatrol's multimedia [eLearning](#) curriculum includes text with voiceovers, videos, 3D animations, pictures, and interactive activities, quizzes, and self-reviews.

Free Learning Management System (LMS)

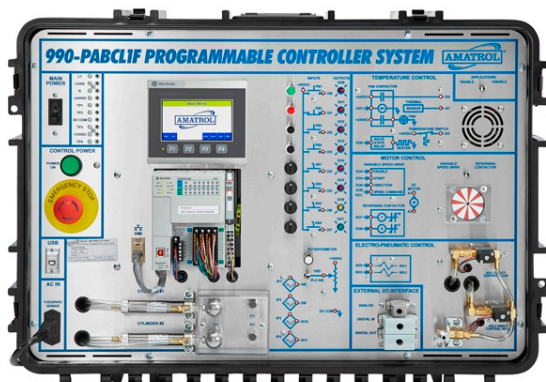
Amatrol eLearning is easy-to-use for both students and instructors. Its web-based interface is simple to navigate and available on any WebGL-compatible Internet browser. Instructors love Amatrol eLearning for its simple, yet sophisticated Learning Management System (LMS). The LMS allows instructors to create custom courses, monitor student participation, track course progress, assess knowledge levels prior to a course, and test knowledge levels after completion. Learners appreciate the fact that they can start and stop as needed, moving through each Amatrol course at their own pace. If a self-review reveals that they didn't understand a particular topic as well as they thought they did, they can revisit it before moving on.

Virtual Simulator

This course includes a virtual simulator!

Amatrol's PLC troubleshooting eLearning curriculum also features a virtual simulator that allows learners to practice hands-on skills even when they don't have access to a physical trainer. Virtual simulators replicate hands-on equipment in such great detail that learners will feel like they are using actual equipment. Learners perform essentially the same industry-based tasks using the virtual equipment that they would perform using equipment hardware. Virtual simulators offer instructors and learners great flexibility when learning remotely or when a physical trainer must be shared by multiple learners.

Additional Info



Requires:

- Computer (see [Computer Requirements](#))

Options:

- Portable PLC Troubleshooting Learning System - AB CompactLogix (990-PABCL1F)
- Amatrol SkillTrace Software (94-ST1)

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