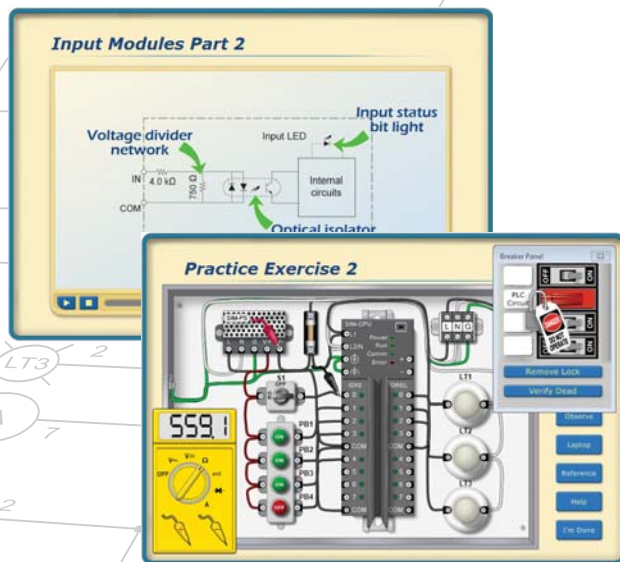
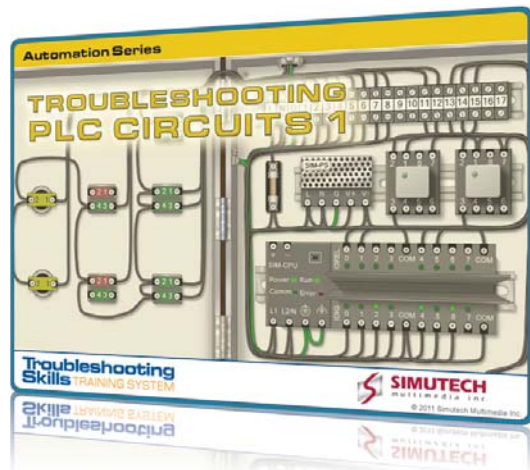


TROUBLESHOOTING PLC CIRCUITS 1

Detailed PLC circuit simulations to help your staff improve their troubleshooting for all types of systems containing PLC controls.

Help Your Staff Become Better PLC Circuit Troubleshooters

- Teach them the basics about how PLCs and their circuits function.
- Help them develop and master effective PLC specific troubleshooting techniques.
- Let them perfect their PLC circuit troubleshooting process with continual practice in safe training environments.

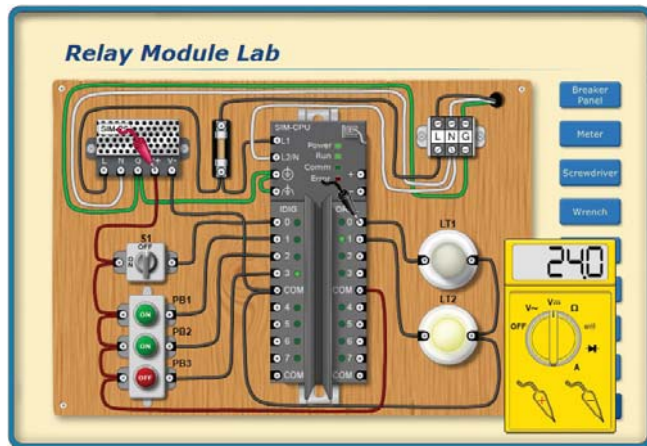


Program Features

- **In-depth videos** and **more than a dozen hands-on labs** to understand PLC operations.
- **12 practice exercises and guided faults** on a basic PLC controlled circuit for troubleshooting practice.
- Three unique PLC troubleshooting scenarios with **over 45 challenging malfunctions** to diagnose and repair.
- **Detailed feedback** on their troubleshooting process and comprehensive evaluation of their troubleshooting skills.
- Choose between **North American or European** design standards.

Who Is It For?

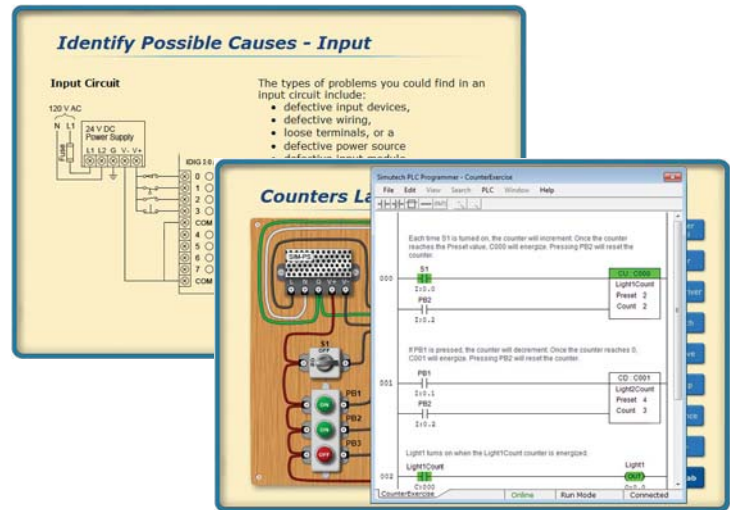
- Maintenance personnel who are required to maintain and troubleshoot electrical equipment and systems that contain PLC controls.
- Effective in any size of formal training program in industrial training departments.
- Highly effective as a self-study training program.
- Invaluable for learning skills that are directly transferrable to the workplace.



What Your Staff Will Learn

This program will help your staff develop the skills to safely troubleshoot electrical equipment and systems containing PLC controls.

- How to determine the operation of PLC circuits using ladder diagrams, wiring diagrams, input/output schematics, and data sheets.
- How to monitor and make minor setting changes to ladder programs using a laptop.
- How to identify defective input, output, and control modules using the multimeter.
- A variety of specific techniques for diagnosing malfunctions in circuits containing any PLC make or model.



Detailed PLC Circuit Troubleshooting Simulations

Three unique scenarios put your staff in realistic environments with different circuit simulations containing PLCs.

- Perform voltage, resistance, and other tests with the multimeter.
- Trace and disconnect wires and replace components.
- Operate inputs in the circuit.
- Connect a virtual laptop to the PLC when they will be able to:
 - Go online and change modes
 - Monitor the operation of the ladder diagram
 - Change settings in the ladder diagram
 - Download programs to the PLC

Evaluating Skill

Track the development of their skills with comprehensive evaluation for each fault and the entire program.

- Detailed individual fault assessments.
- Continual feedback with their Overall Skill Rating.
- Determine areas for improvement with their Overall Summary.

Valuable Resources

- Flowchart, Worksheets, Schematics, as well as Wiring and Ladder Diagrams.
- Extensive Help System and printable Certificate of Completion.
- Instructor resources with the Enterprise Edition include an Instructor Guide and the Simutech Course Manager software for course administration and learning management.

