

TROUBLESHOOTING PLC CIRCUITS 1

SIMULATION

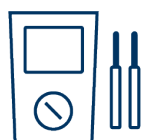
Troubleshooting PLC Circuits 1 (PLC1) is an introductory level PLC simulation that uses a simple PLC control circuit in which pushbuttons are used to control individual lights.

This simulation will teach your professionals about the basic relationship between inputs and outputs as defined by the PLC ladder program. PLCs are commonly used in automation systems in industrial and manufacturing settings.

THE SIMULATION FEATURES

- **A simple PLC control circuit** in which pushbuttons are used to control individual lights.
- **A variety of components** including lights, pushbuttons, a power supply, fuses, a PLC CPU, an 8-channel digital input module and an 8-channel digital output module
- Detailed **3D environment**
- **Adaptive learning** that assesses users' skill level and customizes the program to the individual's performance
- Conformance to **NEMA standards**
- **North American** and **International** versions

ACTIVITIES INCLUDED



Multimeter workout

In this simulation, your professionals will continue working with the multimeter to identify problems such as opens, shorts and module failures in the electromechanical part of the circuit. In addition, they will solve problems both internal and external to the PLC modules.



Interfacing with the Laptop

In this simulation, your professionals will use a new tool: a virtual laptop. They will be able to view programs, download programs to the CPU and change the PLC mode.



Interpreting Ladder Diagrams

Users will anticipate how a circuit will operate according to a given ladder program. They will be able to determine whether the correct program is loaded, or if not, choose the correct program to load.