

TROUBLESHOOTING SKILLS **FOR THE WORK PLACE**

TEACH ELECTRICAL TROUBLESHOOTING SKILLS THAT THE INDUSTRY DEMANDS

From apprentices and students to veteran trades professionals, Simutech's complete simulation-based training system provides the hands-on training and real-time evaluations necessary to develop effective troubleshooting skills.

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Simutech Training System provides an excellent tool for manufacturers whose goal is to train their maintenance teams, reduce production-line downtime, and develop a skilled workforce. Simutech's Systematic Troubleshooting Approach is generic in nature and can be applied to any industry including: food and beverage, automotive, oil and gas, plastics, and industrial packaging.

Our robust training platform sets us apart from other training systems by providing an environment where the users learn by doing. The 3D, hands-on Learning Labs and Troubleshooting Simulations provide a realistic environment where your professionals will learn to diagnose and repair electrical faults in complex production machinery quickly, effectively, and safely. Simutech's Learning Management System (LMS) will help you manage your team's learning and ensure that all of your professionals achieve a consistent level of expertise.

	PRODUCT	DESCRIPTION
CORE SKILLS	Electrical Circuits	Users receive hands-on training on a basic lighting circuit covering key troubleshooting techniques where they can practice, diagnose and repair a variety of problems. The simulation uses components such as a fuse, relay, pushbuttons and lights commonly found in lighting applications.
	Control Circuits	Includes an electric door lock simulation where users will encounter a range of malfunctions found in typical control circuits. The circuit introduces the user to cascading relay logic and utilizes components including a transformer, solenoid, proximity switch and relays.
	Motor Circuits	The industrial garage door simulation included in this module introduces components such as three-phase motors, contactors and overload relays, limit switches and safety switches. Users will troubleshoot a wide variety of faults in the three-phase power circuit and the control circuit.
ADVANCED SKILLS	PLC Circuits	Allows professionals to learn the basics of Programmable Logic Controller operation and applications. Here users will apply troubleshooting skills specific to PLCs, to solve a variety of faults in basic circuits utilizing PLCs.
	Industrial Controls	Users troubleshoot complex malfunctions on this realistic simulation of an industrial process for mixing and processing fluids using relay logic. The system uses a three-phase, 480 volt supply and contains a variety of industrial components such as pumps, agitators, heaters, temperature and float switches, relays, and timers.
	Industrial Controls 2	This simulation utilizes PLC control on an industrial fluid processing system. Users will connect a laptop computer to go online and view ladder logic for twenty different programs. To aid diagnosing a problem, users can change counter and timer values and force contacts while in test and program modes. A wide variety of challenging faults are explored in this module to help build advanced troubleshooting skills.
	Industrial Sensors	Teaches professionals how to develop problem-solving skills required in a wide variety of industrial applications. The focus of this module is on Analog PLC inputs with 4-20 ma loop circuits. Also covered are a number of sensors used in a variety of industrial processes for maintaining such factors as temperature, light and humidity.
	VFD	Teaches professionals how to develop problem-solving skills required in a wide variety of industrial applications. The focus of this module is on Analog PLC inputs with 4-20 ma loop circuits. Also covered are a number of sensors used in a variety of industrial processes for maintaining such factors as temperature, light and humidity.