

MOTOR CONTROL COMPONENTS

LEARNING LAB

Motor Control Components is Simutech Multimedia's fourth learning lab. In this lab, your professionals will learn about motors circuits and their components, including the possible causes for motor failure (both mechanical and circuit failures). After the successful conclusion of this learning lab, they will have access to the third simulation level, Troubleshooting Motor Circuits (TMC).

Simutech's learning labs provide a realistic simulated lab environment and the tools to learn and practice electrical troubleshooting, plus:

- Demonstrations and hands-on labs
- Step-by-step guides to help users apply new problem-solving techniques
- Printable resources, including circuit diagrams, schematics, and worksheets
- **North American** and **International** versions

WHAT'S COVERED



Motor Windings

This section will teach your professionals to differentiate between Wye and Delta wiring configurations and prepare them to calculate expected winding resistance values.



Motor Behavior

A three-phase squirrel cage motor is the main focus for this lab, which explains starting characteristics such as current and the speed/current/time relationship. This lab also contains interactive exercises that explore different levels of load.



Motor Components

This section explores the parts of a motor circuit in an interactive lab environment that will teach your professionals how the components work under normal operating conditions, and how they fail.



Determining Causes of Failure

This section covers the causes of failure in motor circuits, including mechanical failures in the motor itself as well as failures in the circuitry leading to the motor. It includes mechanical problems in the load, opens and shorts in motor power circuits, defective motors, and malfunctions in the control circuit.