Electric Motor Troubleshooting Training | eLearning Course

eLearning Course: M45129

Amatrol's Electric Motor Troubleshooting eLearning course begins by explaining common types of AC and DC motor failures and causes and builds by allowing learners to study how to test, diagnose, and troubleshoot these problems. Specific objectives include listing common failures of a three-phase AC motor's stator windings, understanding common methods used to diagnose DC motor failures, and using a megger meter to test a DC electric motor armature.

In-Depth Electric Motor Troubleshooting Curriculum

Comprehensive Electric Motor Troubleshooting Curriculum Connected to Real-World Skills
Amatrol's electric motor troubleshooting eLearning course covers important topics, such as:

Troubleshooting DC Motor Failures

Learners begin with an introduction to DC electric motor troubleshooting, including motor failures, DC electric motor armature testing, testing DC motor field winding failures, and troubleshooting DC motors. Individual lessons focus on topics like common types of DC electric motor failures, how to use a megger to test a DC electric motor armature, how to use a multimeter to test DC motor field windings, and how to troubleshoot a DC motor using a troubleshooting chart. Learners will also practice skills, such as performing a diagnosis of a DC electric motor, evaluating DC electric motor commutator and brush health, mastering use of a megger and a multimeter, and troubleshooting faults in a DC motor.

Troubleshooting AC Motor Failures

In this module, learners will be introduced to AC electric motor troubleshooting, including motor failures, testing single-phase AC motors, testing three-phase AC motors, and troubleshooting AC motors. Individual lessons focus on topics like common types of AC electric motor failurs, how to use a multimeter to test a single-phase AC electric motor, how to use a megger to test a three-phase AC motor stator windings, and how to troubleshoot faults in a single- and three-phase AC motor. Learners will also practice skills, such as performing a mechanical diagnosis of an AC electric motor, using a multimeter to test an AC motor's start/run capacitor, using a megger to test three-phase AC motor stator windings, and troubleshooting faults in a single- and three-phase AC motor.

Interactive eLearning with Learning Management System

Highly-Interactive Multimedia Format Appeals to All Learning Styles
Amatrol's electric motor 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.

Additional Info

Requires:

- Computer (see Computer Requirements)

Options:

- Electric Motor Troubleshooting Learning System (85-MT2E)

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