

## Motor Maintenance and Testing (MMT)



Electric motors provide the means to convert electrical energy into a meaningful and measurable output. Because they are so common and critical in industrial facilities, the ability to quickly recognize, diagnose and remedy an evolving motor problem will help prevent catastrophic failures. When troubleshooting motors, technicians should perform electrical tests on insulation before mechanical inspections, because of the lower time investment. An effective motor maintenance program increases productivity, reduces unnecessary downtime, maximizes electrical motor efficiency and saves money.

### Who Should Attend

This hands-on course is intended for new or experienced electricians and technicians that install, maintain, repair or troubleshoot rotating machines.

### Learning Objectives

Identify the fundamentals of AC and DC motor construction

Interpret nameplate data and NEMA design codes

Explain installation, starting/stopping methods and maintenance of single-phase and three-phase synchronous, squirrel-cage (induction) and wound-rotor motors

Identify appropriate configurations of motor protection and control circuits

Perform and evaluate results from motor rotation, insulation and surge tests

### Requirements

The student should have basic knowledge of AC/DC electricity. Students must wear safety toe shoes.

### [Motor Maintenance and Testing Course Outline](#)

**Course Duration:** 4 days

**Credits:** 3.2 CEUs

**Level of Involvement:** Hands-on

**Schedule:** 8:00am-4:30pm

**Course Number:** 266

**Tuition USD:** \$1325