

Circuit Breaker Maintenance, Low-Voltage (CBMLV)



Low-voltage power circuit breakers are one of the most critical and neglected protection devices in any power system. The increased exposure to moisture and contaminants makes this type of breaker more susceptible to failure without maintenance than any other. With proper maintenance, technicians can prevent nuisance trips, and ensure tripping operations execute as required for equipment protection. In addition to improving electrical system reliability, well maintained circuit breakers also minimize the arc flash hazard energy levels that technicians can be exposed to during a fault.

Who Should Attend

This hands-on course is intended for new or experienced electricians and technicians that install, maintain, repair or troubleshoot power circuit breakers, rated less than 1000 VAC, equipped with electromechanical or solid state tripping devices.

Learning Objectives

- Identify circuit breaker components
- Utilize appropriate personal protective equipment and safe work • procedures for breaker maintenance
- Explain removal and restoration procedures
- Perform circuit breaker maintenance service
- Perform and evaluate the results of low resistance, insulation resistance and overcurrent tests
- Verify trip device operation by calculating high current test values from manufacturers' trip curves

Requirements

The student should have basic knowledge of AC/DC electricity. Students must wear long pants and safety toe shoes to complete the lab portion of this course. No shorts or sandals will be allowed.

[Circuit Breaker Maintenance, Low-Voltage Course Outline](#)

Course Duration: 4.5 days

Credits: 3.6 CEUs

Level of Involvement: Hands-on

Schedule: 8:00am – 4:30pm, the final day ends at 12:00pm

Course Number: 134

Tuition USD: \$1745

