



Low Voltage Circuit Breaker Maintenance

Introduction

This half day course focuses on circuit breakers that are the workhorse of any power system. They protect our critical equipment from overloads and short circuits. They also provide workers with a safe work environment by ensuring that arc flash energy levels are within the levels that they have been calculated to be. However, breakers do sit idle for long periods of time since they only operate when they are called to do so. Because they do sit idle, they can be prone to mechanical failure due to excessive contamination, lack of lubrication or excessive wear and tear as a result of vibration while under the mechanical stress of being closed for long periods.

Therefore, regular, and proper preventive maintenance is key to ensuring that your circuit breakers will work when they are called upon.

This course can be customized for a specific manufacturer of breaker to include Siemens, Westinghouse, Cutler Hammer, Federal Pioneer and Merlin Gerin, either air power or insulated case breakers.

Our program is based on:

The program is based on the latest industry maintenance standards in Canada.

- Canadian Standards Association: CSA Z463- Standard for Maintenance of Electrical Systems
- Canadian Standards Association: CSA Z462- Standard for Electrical Safety.
- IEEE-1584- Arc Flash Hazard Calculations
- National Electrical Testing Association (NETA): ANSI/NETA 2019 Standard for Maintenance Testing Specifications

Deliverables

Each student receives three comprehensive binders of reference material including maintenance frequencies, PEARL test standards and test forms.

Who Should Attend:

- Managers
- Supervisors
- Health & Safety Representatives
- Engineers
- Technicians
- Electricians

Objectives:

The successful candidate will be able to:

- Perform multiple tests as per the latest industry standards
- Be able to recognize deficiencies and take/recommend corrective action

Course Modules

- Breaker Failure Modes And Frequencies.
- Component Parts
- Visual inspection, cleaning and Lubrication
- Electrical Testing

Quotations

Quotations are available on request. This program can be modified to suit your specific needs by dealing strictly with a specific manufacturer of your choice.

We will be happy to conduct a needs analysis with you to determine your specific requirements.

