



Powering Business Worldwide

Eaton Corporation  
Electrical Engineering Services & Systems  
130 Commonwealth Drive  
Warrendale, PA 15086

## TEGG 40 Hour MCC Training Outline

### **Arc Flash Mitigation Solutions – 8 Hours**

#### Theory

- Arc Quencher
- Racking Devices
  - FlashGard - RotoTrak
  - RPR2
  - MR1000
  - Integral Racking Systems
- Maintenance Modes (ARMS)
- ZSI

#### Hands on Exercises

- Racking Devices
  - FlashGard - RotoTrak
  - RPR2 – In Trailer
  - MR1000 – In Trailer
  - Integral Racking Systems
- Maintenance Modes (ARMS)
- ZSI

### **VFDs – 8 Hours**

#### The Basics

- How it works
  - AC Sine Waves
  - Rectification
  - Pulse Width Modulation
  - Harmonic Warning
- Components
- Motor Basics
  - Volts/HZ Ration

#### Maintenance

- Inspection
- Cleaning
- Loose Connections

### **UPS/Batteries – 8 Hours**

#### UPS

- How it Works
- Configurations Modes of Various UPS

#### Batteries

- Types of Batteries
  - VRLA
  - Lithium-Ion
- Maintenance

## **ATS – 16 Hours**

- Purpose of Transfer Switch Equipment / ATS Basics

  - Installation Types – (NFPA)

  - Codes and Standards

  - ATS Components

  - Regenerated Voltages

  - ATC-300 Controller – Includes activities on Demos

    - ATS Operation

    - ATC-300 Programming

    - Troubleshooting

  - ATC-900 Controller – Includes activities on Demos

    - ATS Operation

    - ATC-900 Programming

    - Troubleshooting

  - ATS Exercises in Trailers (and Switch Demos)

    - Types of Switches

      - Wall Mount Contactor Transfer Switch

      - Wall Mount Breaker Transfer Switch

      - Magnum Transfer Switch

      - Bypass/Isolation Transfer Switch

    - Manual Operation

    - Component Identification

    - Interlocks