



# **JUNE 17TH** **ARC FLASH SAFETY** **VIRTUAL SEMINAR**

Please join us for a four-hour long web session on identifying and working with arc-flash hazards. The Eaton Power System Engineering team will be presenting tools and concepts to keep you safe while installing and maintaining electrical equipment.



- Four-Hour Web Session**
- Identifying Arc-Flash Hazards**
- Working Inside Arc Flash Boundaries**
- Selecting Personal Protective Equipment**
- Mitigation Solutions**

**SEE FULL COURSE AGENDA ON FOLLOWING PAGE**

**WE LOOK FORWARD TO YOUR ATTENDANCE!**

# AGENDA

## ARC FLASH SAFETY AWARENESS & MITIGATION SOLUTIONS



- What is Arc Flash
  - Arc Flash Definition
  - Situation and prevention
  - The characteristics of an Arc
  - Determining the Incident Energy (IE)
- Working in a Situation Where an Arc Flash Hazard Exists
  - What is the Significance of the Quantity 1.2 Calories per Centimeter Squared?
  - Arc Flash Boundary
  - Factors Affecting the Degree of an Arc Flash Hazard
  - Using the Information from an Arc Flash Warning Label
- How Do Power Systems Engineers Determine Incident Energy and Arc Flash Boundary?
  - An Example of Output from an Arc Flash Risk Assessment
  - Practical method of calculating incident energy
  - How Does an Engineer Calculate Incident Energy Value?
    - Study Process
    - Steps to estimate an incident energy
  - How Does an Engineer Calculate an Arc Flash Boundary?
- Reducing Arc Flash Hazards
  - Coordination and short-circuit studies
  - Arc flash Hazard analysis
  - Arc Flash Hazard training
  - Electrical safety Training
- Eaton Arc Flash Mitigation Solutions
- Practical methods of reducing ARC flash hazards
- Arc Flash Videos – Assess the Risk of an Arc Flash and Scenarios
- USA Standards and recommended Practices

## SELECTING AND USING PERSONAL PROTECTIVE EQUIPMENT AND INSULATED TOOLS

- Qualified/Competent Person's Responsibilities when using PPE
- PPE for Electrical Work
  - Hardhat
  - Safety Glasses or Face Shield for Face and Eye Protection
  - Protective Footwear
  - Insulated Gloves/Sleeves – Ratings and Requirements
- Arc Rated Clothing
  - Multiple Layers
  - Heat Stress Warning
  - Using Underlayers That Are Not Arc Rated
  - Using Underlayers That Are Arc Rated
  - Laundering of Arc Rated Clothing
- Selecting Arc Rated Garments and Other PPE for Arc Flash Protection
  - Arc Flash Hazards Not Addressed in the Arc Flash PPE Categories Method
  - Using the Simplified Two-Category Clothing Approach
  - Using Table H.3(b) -- Selecting Arc Rated PPE on the Basis of an Arc Flash Risk Assessment
- Picture Examples of Arc Rated Clothing and Other PPE
  - 40 Cal Arcguard Revolite Arc Flash kit with Lift Front Hood
  - 12 Cal Arcguard Arc Flash kit with Pureview & FR Coverall in Ultrasoft
  - Class 2 Arcguard rubber voltage gloves
  - Arcguard 25kA Blanket
  - Insulated tools
- Selecting and Using Insulated Tools
  - Hot Sticks and Shotgun Hot Sticks
  - CSA CSA-Z462 Reference to Fiberglass-Reinforced Plastic Rods and Tubes
  - Care and Maintenance of Hot Sticks
  - Insulated Hand Tools