

Course Overview:

This course aims to make electrical systems more safe. A balance of theory and practice will provide a firm foundation of knowledge for your next design or construction project. The course material will prepare you to correct problems in your electrical system and improve safety and efficiency. Additionally, a case study will be used to discuss arc flash analysis and mitigation in an industrial plant.

Course Objective:

- Identify safety hazards to personnel who come in contact with energized electrical systems
- Prevent equipment failures and malfunctions by employing proper arc flash mitigation techniques
- Interpret standards and labels related to arc flash
- Ensure proper operation of electrical systems

Course Outline:

- Electrical Hazards
- Existing and Proposed Standards
- Determining Safe Approach Distance
- Determining ARC Hazard Risk Category
- Fault Current Calculations
- Determination of Arcing Fault Clearing Time
- Determining Arc Flash Hazard Risk Category
- Incident Energy Exposure Calculations
- Arc Flash Hazard Analysis
- Practical solutions for Reducing Arc-Flash Hazard
- Case Study - Arc Flash Analysis in an Industrial Plant

Who Should Attend:

Utility, industrial, commercial, institutional electrical professionals • Electrical contractors • Electrical engineers • Electrical technicians • Electricians • Linemen • Supervisors • Personnel who work on or near energized electrical equipment and systems

Training Language:

Eng

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation