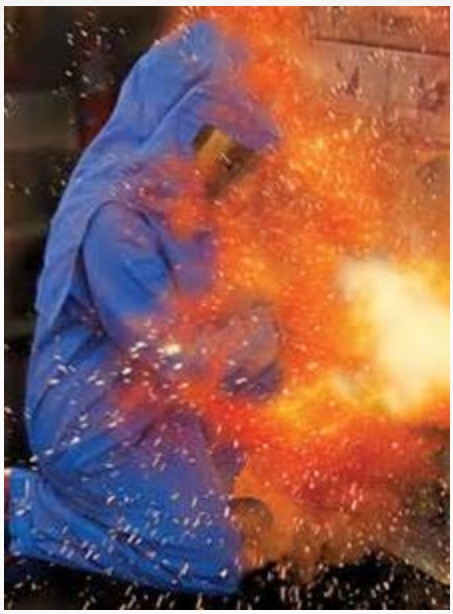
COMPLIANCE SOLUTIONS

Electrical hazards account for more than 250 fatalities and 3,500 injuries in the workplace each year.*

Electrical accidents rank 7th among all causes of work-related deaths in the U.S.*



** Electrical Safety Foundation International*

NFPA 70E requires companies to employ safe work practices to protect personnel by reducing exposure to major electrical hazards. Originally developed at OSHA's request, NFPA 70E helps companies and employees avoid workplace injuries and fatalities due to shock, electrocution, arc flash, and arc blast, and assists in complying with OSHA 1910 Subpart S and OSHA 1926 Subpart K requirements.

While basic compliance to NFPA 70E requirements is established with a five-step process, a sixth step assists the facility owner with fine tuning the electrical power system, both for safety and operability.

Step 1: Develop and Audit Electrical Safe Work Practices Policy
We can help you develop a written document that covers all areas of your company's electrical safety practices. It will include such things as lockout/tagout procedures, methods of qualifying workers, selection and application of personal protective equipment (PPE), methods of establishing safe work areas, arc flash and shock protection calculations, equipment labeling, and worker audit procedures.

Step 2: Conduct an Arc Flash Risk Assessment using the Incident Energy Analysis Method and Apply Associated Equipment Labels
Our engineers can conduct a power system engineering study that is specific to the power distribution and control equipment at your facility and properly label such equipment.

Step 3: Ensure Adequate Supplies of Personal Protective Equipment (PPE) and Proper Tools
We can help you determine the appropriate PPE that is necessary for employees working in areas where potential electrical hazards exist.

Step 4: Conduct Regularly-Scheduled Safety Training and Audits for All Electrical Workers
NFPA 70E defines a qualified person as "one who has skills and knowledge related to the construction and operation of the electrical equipment and systems, and has received safety training to recognize and avoid the hazards involved." We can help you satisfy this requirement by providing safety training specific to the hazards of arc flash, arc blast, shock and electrocution in your facility.

Step 5: Maintain All Electrical Distribution System Components
We can work with qualified field services personnel to perform on-site preventive and predictive maintenance services for any manufacturer's electrical equipment. Upon completion, a detailed report will be provided that identifies potential issues along with corrective recommendations.

Step 6: Follow Strategies to Mitigate and Control Arc Flash Hazards
This often overlooked step is one of the most crucial in optimizing the safety and performance of the power system. The goal of arc flash mitigation is to reduce the arc flash energy, and thus the PPE, to a level that permits normal tasks to be performed on equipment.

SE Engineering, PC is focused on helping companies comply with NFPA 70E, NEC, and OSHA requirements and offers a variety of arc flash mitigation solutions to optimize the safety and reliability of your facility's power system.

SE Engineering

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