What is Arc Flash?

An ARC FLASH is a release of energy caused by an electrical arc. ARC FLASH hazards exist in all conditions where people are exposed to energized electrical equipment. ARC FLASH incidents are very common and can cause posible injury and even death to anyone involved.

CONSIDER THE FACTS

126
FATAL ELECTRICAL INJURIES IN 2020

2,220
DAYS AWAY FROM WORK DUE TO NON-FATAL ELECTRICAL INJURIES.

OVER 35,000 DEGREES °F

700 MPH
PROJECTILE VELOCITY

5.39% of all electrical incidents WERE FATAL IN 2020

31%
Construction, Maintenance & Repair
OCCUPATIONS OF ALL ELECTRICAL FATALITIES

KNOWLEDGE IS POWER.

2020 had the fewest number of electrical fatalities since 2003.

24% DECREASE over 2019.

Estimated Cost can reach over **$15 MILLION**

HEALTHCARE - WORKERS COMP - EQUIPMENT DAMAGE - INCREASED INSURANCE PREMIUM - DOWNTIME

"You have the POWER to create a "SAFETY FIRST" WORKPLACE"

Electrical Safety Resources

The following are organizations quoted in this document and great tools for further research:

NFPA 70E Standard for Electrical Safety in the Workplace:
- **https://www.nfpa.org/Codes-and-Standards**

National Institute for Occupational Safety & Health (NIOSH):
- **www.cdc.gov/niosh/topics/electrical**

Occupational Safety & Health Administration (OSHA)
- **www.osha.gov/SLTC/electrical**

National Safety Council - Workplace Safety
- **https://www.nsc.org/work-safety/**

Electrical Safety Foundation International
https://www.esfi.org/

The first step in becoming SAFE, RELIABLE & COMPLIANT is INCIDENT ENERGY ANALYSIS.

SAFETY + RELIABILITY = PEACE OF MIND

We can help you get there.
Call today for details on Incident Energy Analysis, Power Quality Products, Remote Racking and much more.

225.751.7535

ARE YOU IN COMPLIANCE?

NFPA 70 E 2021 & OSHA Standard 1910.269, Appendix E mandate specifics regarding Arc Flash and Employee Protection from Electrical Arcs. Here's what you need to know:

OSHA Standard 1910.269, Appendix E - Protection from Flame and Electric Arcs: Paragraph (l)(8)(i) requires the employer to assess the workplace to identlfy employees exposed to hazards from flames or electric arcs. This provision ensures that the employer evaluates employee exposure and that they receive proper protection. The employer MUST conduct an assessment for each employee who performs work on or near exposed, energized parts of electrical circuits.

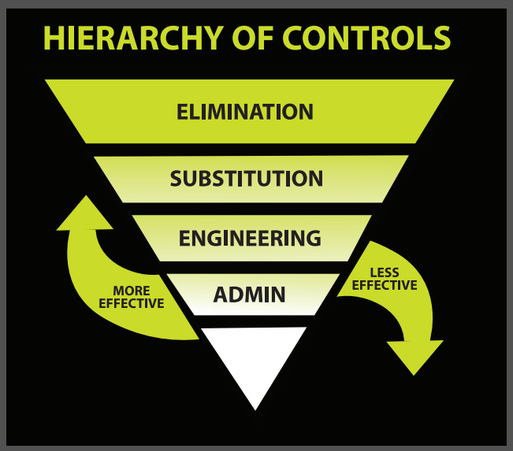
Table 130.5(C) - Example Assessments for Various Tasks

TASK	IS EMPLOYEE EXPOSED TO HAZARD?
Parts of the equipment are loose, sticking, or the equipment exhibits signs of lack of maintenance.	YES
Servicing electrical equipment, such as racking in/out a circuit breaker or replacing a switch.	YES
Employee is closer that the minumum approach distance established by the employer.	YES

For more information on task, visit https://www.osha.gov

NFPA® OSHA®

National FIre Protection Association (NFPA) 2021 Edition: The Incident Energy Analysis method is now used in determining the likelihood of an occurrence of an Arc Flash, eliminating many shortcomings of the old Table Method. The Hierarchy of Risk Controls Method has moved into the mandatory text. The standard now explicitly states that the first priority MUST be elimination of the hazard. See the chart (right).



For details on the NFPA 70E 2021 Edition, visit https://nfpa.org/70E

WANT TO KNOW MORE? VISIT INOLECT.COM

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