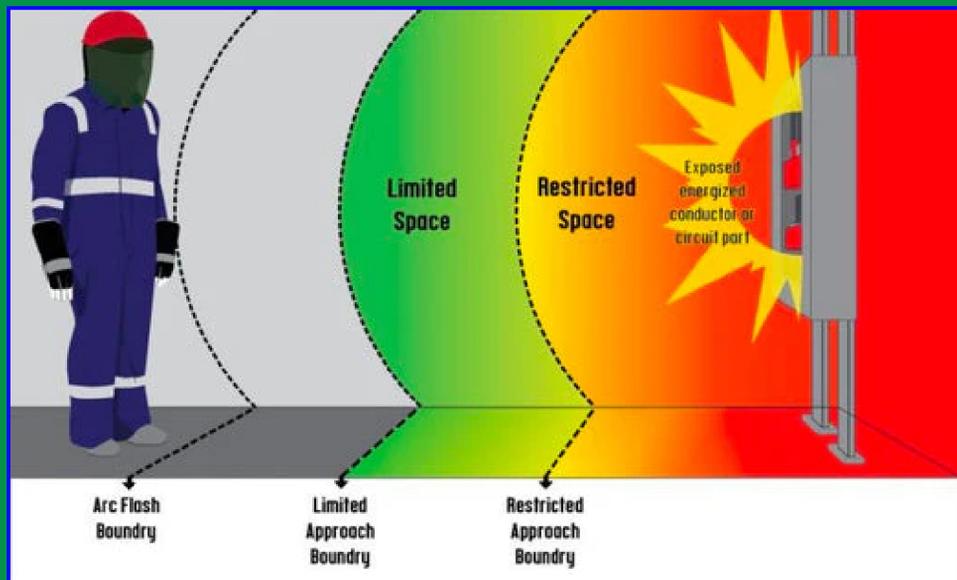


Anyone who works around energized equipment is at risk of arc flash hazards. It is important to identify, assess and control these hazards to maintain a safe work environment.



## What is an Arc Flash?

An electric arc is an electrical explosion that produces a bright flash gas, where temperatures can exceed 35,000 °F (19,400 °C). The energy released in the arc vaporizes the metal conducting the electricity and produces an explosive arc blast with deafening noises, supersonic concussive forces, and super-heated shrapnel.

## Causes:

- Faulty, damaged, dirty, or improperly maintained electrical equipment;
- Inadvertent movement within the restricted or arc flash boundaries, especially when conductive tools are used, also increases the likelihood of an arc flash incident.



## Prevention Methods:

- Using lockout/tagout procedures and ensuring the deenergization of electrical equipment.
- Conducting an arc flash study/risk assessment to determine the potential for arc flash hazard, determine the available incident energy of the exposed energized electrical conductor or part and determine the appropriate arc-rated PPE.
- Identifying and using approach boundaries for qualified and unqualified employees.
- Proper maintenance of electrical equipment reduces the risk of an arc flash incident.
- Using and maintaining arc-rated PPE and insulated tools.
- Appropriate training of qualified workers to ensure they are aware of the arc flash hazards.

<b>WARNING</b>	
<b>Arc Flash and Shock Risk</b>	
<b>Appropriate PPE Required</b>	
16 in 1.03 cal/cm <sup>2</sup>	Arc Flash Boundary Incident Energy at 18 in
<b>PPE</b>	Shirt & pants or coverall, Nonmelting (ASTM F1506) or Untreated Fiber
480 VAC	Shock Risk when cover is removed
00	Glove Class
42 in	Limited Approach
12 in	Restricted Approach
<b>Location:</b>	<b>PANEL A</b>
<b>Fed From:</b>	<b>MDP</b>
Global Risk Consultants Corp. 100 Walnut Ave., Suite 501 Clark, NJ 07066	
Job#: 2615.0054	Prepared on: 07/30/19 By: Engineer
Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements	

Together, let's do our part to keep each other safe