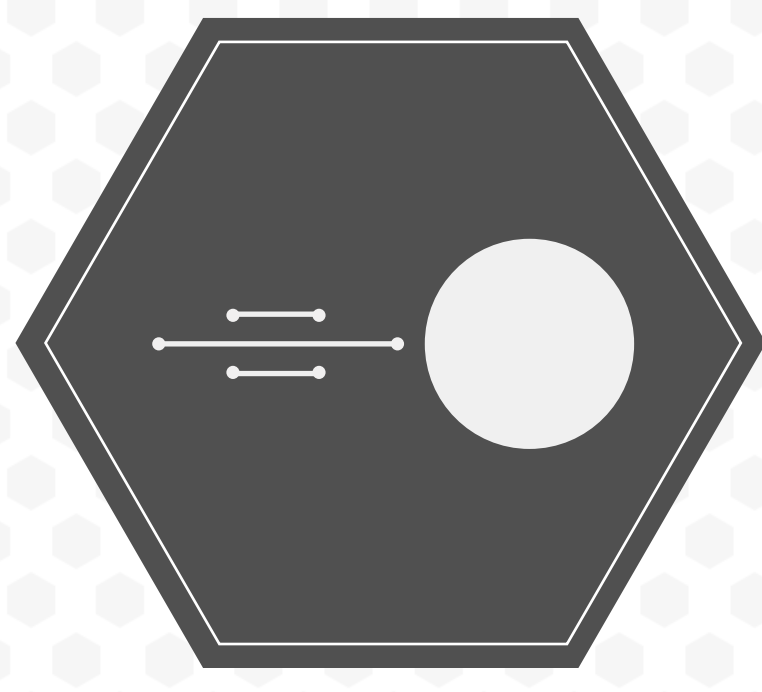
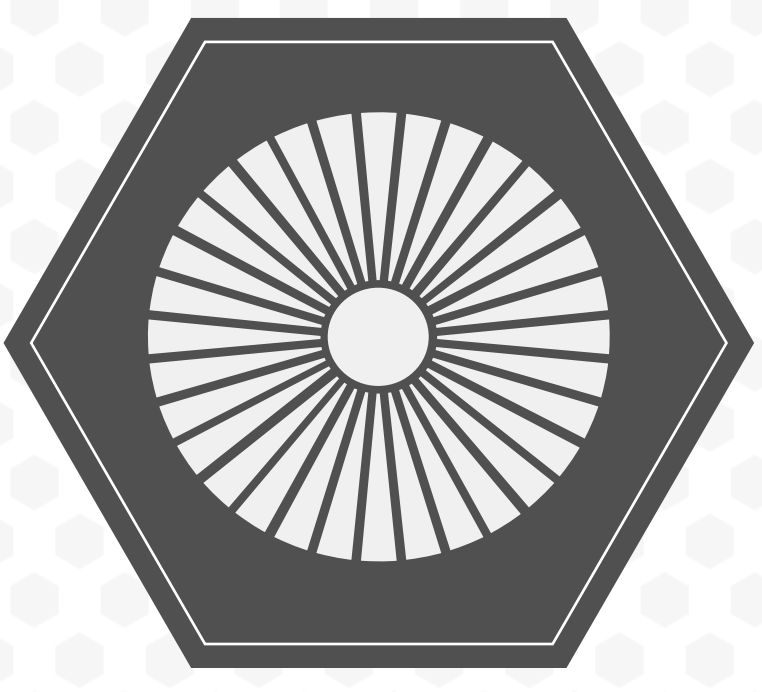
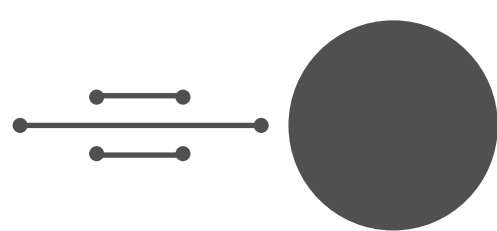


# ANATOMY OF AN

# ARC FLASH

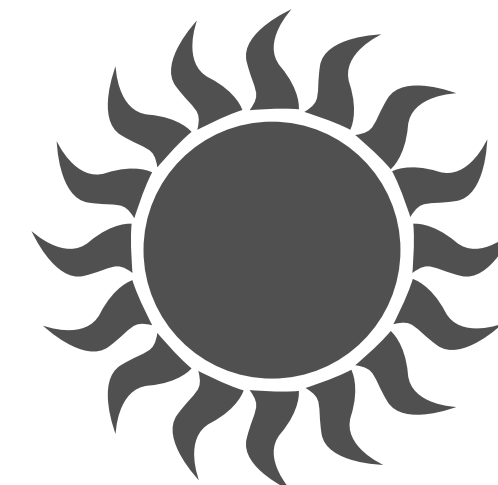


An Arc Flash is an ENERGY DISCHARGE that forms when a fault occurs in an electrical circuit. The arcing results in a tremendous amount of energy release as current flowing through ionized air.



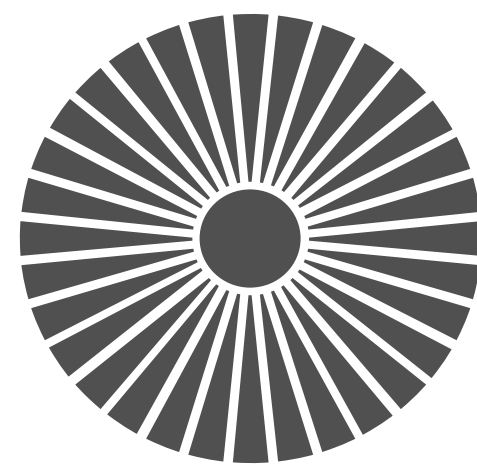
## SHRAPNEL

Arcs spray droplets of molten metal at speeds that exceed 700MPH. Can easily penetrate standard PPE



## HIGH TEMPERATURES

Electrical arcs produce some of the highest temperatures known to occur on earth. Up to 35,000°F or 3 TIMES the temperature of the sun.



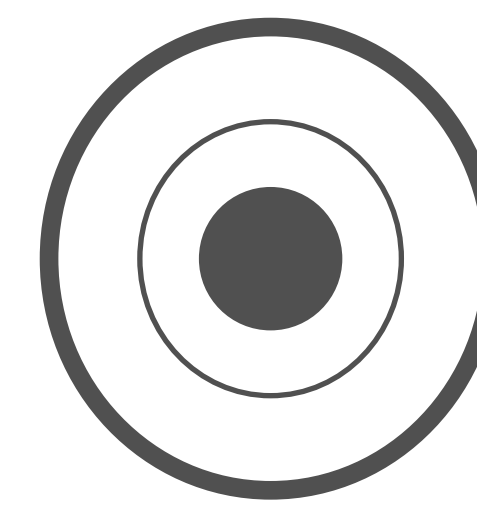
## SUDDEN EXPANSION OF AIR

All known materials are vaporized at this temperature. The rate of expansion is comparable to a pea sized piece of copper expanding to the size of a Boxcar. Blast pressure waves have THROWN WORKERS across rooms.



## FATAL BURNS

Even when several feet from the arc, fatal burns can occur. Clothing can be ignited from 10 feet away, unless proper PPE is in use.



## HEARING LOSS

The arc blast can have a sound magnitude of 140dB at a distance of 2 feet from the arc, resulting in permanent hearing loss.