

ELECTRICAL ARC

In the US, every day four people die due to electrocution.
Three of those people die at work..

What Is An Electrical Arc?



Electrical current is found in power lines, transformers, breaker boxes, power outlets and switches. Exposure to electric current can cause shock, injury and electrocution. A luminous discharge of current is formed when a strong current jumps a gap in a circuit or between two electrodes.

Keep the Distance Rule

There should be adequate working space to allow workers to safely maneuver around electrical equipment. Electric arcs can kill at distances up to 20 feet. Stay far away from electrical work in progress!



Arc Flash Prevention



When shutting down or turning on equipment always follow the one hand rule.

- 1) Stand to the right of the disconnect.
- 2) Face away.
- 3) Operate the disconnect handle with your left hand.

Electrical Effects

Milliampere	Effect
1	Faint tingle
5	Slight shock felt, not painful
6-25 (women)	Painful shock
9-30 (men)	The freezing current or "let-go" range
50-150	Extreme pain, respiratory arrest, severe muscular contractions
1,000-4,300	Ventricular fibrillation, muscular contraction and nerve damage. Death likely
10,000+	Cardiac arrest, severe burns, probable death

Operate the disconnect handle with your left hand

Stand to the right of the disconnect

Face away



SAFETY

HEALTH

ENVIRONMENT

ELECTRICAL ARC

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TRAINING ROSTER

Date	Shift / Crew	Trainer
No	Employee Name	Employee Signature
1		
2		
3		
4		
5		
6		
7		
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20		
Follow-up / Recommendations / Corrective Actions		

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