



Switch on Safety: **Safety on the Front Lines**

October 29, 2025 | 1PM – 2PM ET

Photo credit: Pearce Renewables



Speakers



MODERATOR

Josh Rogers

Senior Director, Safety, Workforce
Training, & Operations, ACP



Dylan Anderson

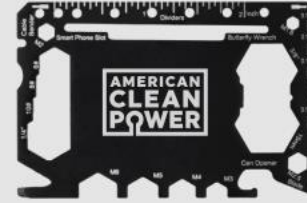
Operations Safety & Training
Coordinator, EDP Renewables



2025 Safety First Workforce Campaign Giveaway

FOR DETAILS & ELIGIBILITY, PLEASE VISIT:

cleanpower.org/switch-on-safety





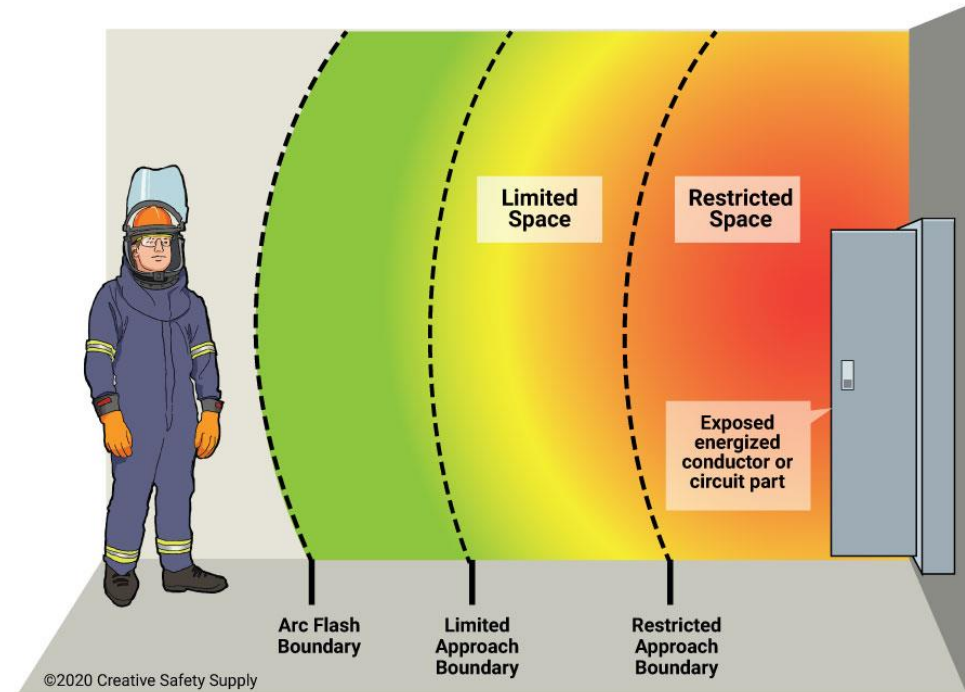
Introduction

- Why electrical safety is critical
- PPE & hazard assessment
- Equip employees to perform safe work in the field
- Real world impacts and statistics



Understanding Electrical Hazards


- Types of electrical hazards: shock, arc flash, burns, arc blasts
- Potential consequences of unsafe work
- Risk factors in field environments
- Equipment specific training



Personal Protective Equipment

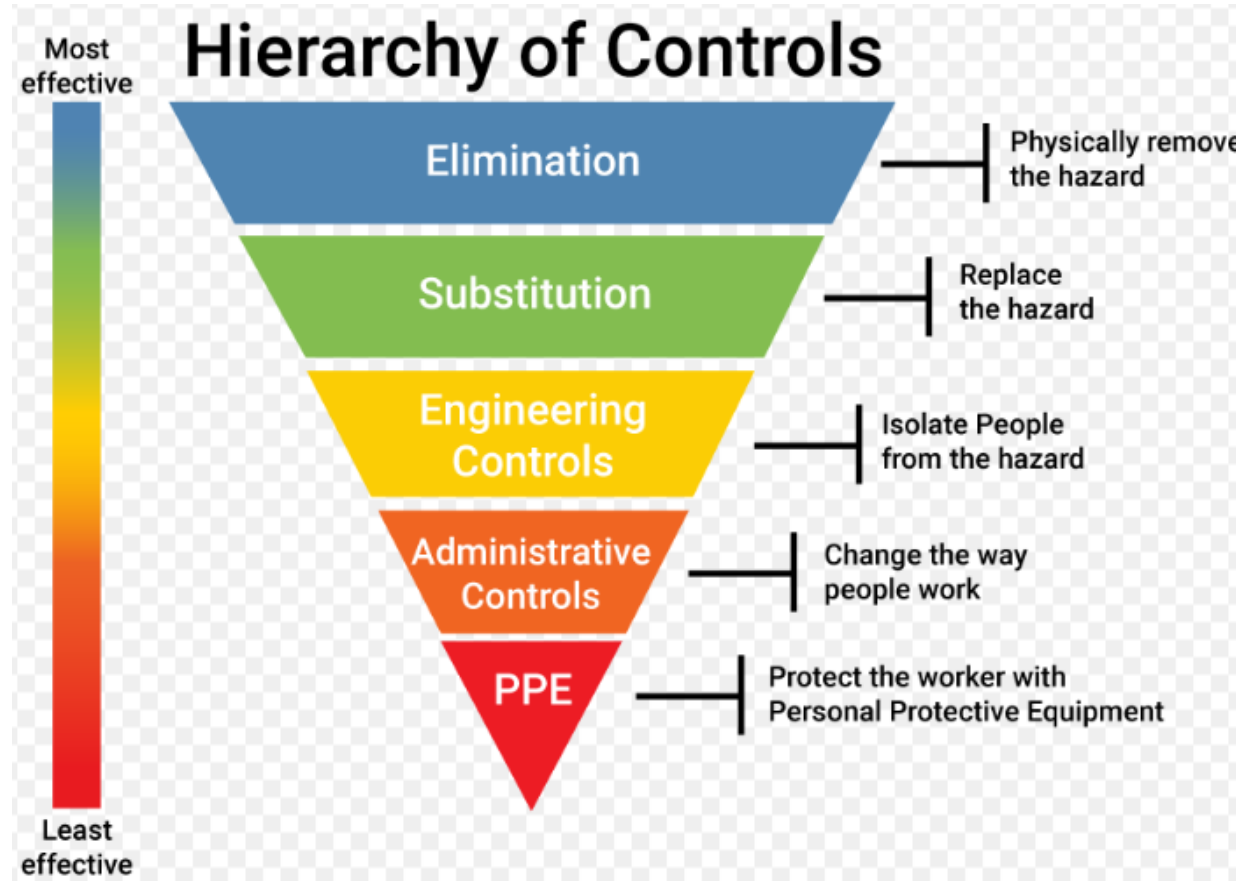
Arc Flash Protection CAT 2 1.2-8.0 cal/CM2

- Arc rated face shield with Class E Hard Hat
- Hearing Protection
- ANSI rated safety glasses
- Balaclava
- Arc Rated Long Sleeve Shirt
- Class 0 Rubber gloves with leather protectors
- Arc rated pants
- EH rated boots

 WARNING		
Arc Flash and Shock Hazard Appropriate PPE Required		
NORMAL OPERATING CONDITIONS		
0.4 kVAC	Nominal System Voltage	CAT 2 is the correct PPE to access this space, it is above 1.2 but below the 8.0 cal threshold
3 .5 ft.	Arc Flash Boundary	
2	NA PPE Category	
6.08	cal/cm ²	Incident Energy at working distance of 18 inches
0.4 kVAC	Shock Hazard	
6 ft.	Limited Approach Boundary	
2.9 ft.	Restricted Approach Boundary	
Equipment ID: C6 PITCH SYSTEM		Review Date: 12/31/2019 12:00:00 AM

- Role of PPE
- PPE is a last defense
- Common PPE Items
- Inspections and limitations

Safe Work Framework



Validating Safe Work



- Testing and verification steps before work
- Tooling/Equipment & PPE checks
- Supervision and peer verification rules

Lockout/Tagout (LOTO)

- Shutdown and isolate energy sources
- Apply Lockouts
- Verify absence of energy
- Control residual energies
- Protect against any adjacent energy sources



Video Example 1



- Turning off power sources and placing tags on isolation devices.

Video Example 2



- Checking for electrical hazards and the absence of voltage, as part of live-dead-live checks.

Video Example 3



- Reconfirming the meter works on a “live” electrical source, as part of live-dead-live checks.

Common Mistakes in the Field

- Bypassing LOTO procedures
- Assuming equipment is de-energized
- Improper use of PPE
- Poor communication



Case Studies

- During a control card replacement, a DC side switch unexpectedly closed
- Technician missed a critical LOTO step
- Inadequate LOTO procedure and Tech was not QEWS
- New LOTO procedure and QEWS certification



Case Studies

- Technician received a shock while loosening hardware on the DC side
- Residual voltage remained due to a non-isolated combiner box
- Incomplete energy isolation
- LOTO procedure and site layout awareness



High Energy Control Assessments

Injury and Fatality Trends for Electric Power Generation and Delivery
(Rolling 3-year average)



- High Energy Control Assessments
- Lagging metrics (TRIR) to proactive hazard control (HECA)
- Field Driven insights for continuous improvement

Best Practices

**Plan every job
with safety in
mind**

**Follow
Procedures**

**Use PPE
properly**

**Communicate
hazards to
team members**

**Stop work if
conditions are
unsafe**



Employee Engagement

- Encourage reporting incidents and near misses
- Participate in safety inspections and audits
- Share lessons learned with peers



Tools & Resources



**Company SOP's and
LOTO procedures**



**PPE guidelines and
inspection protocols**



Work instructions



**Safety apps or
reporting platforms**





Questions?



Thank You to Our Speakers!



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