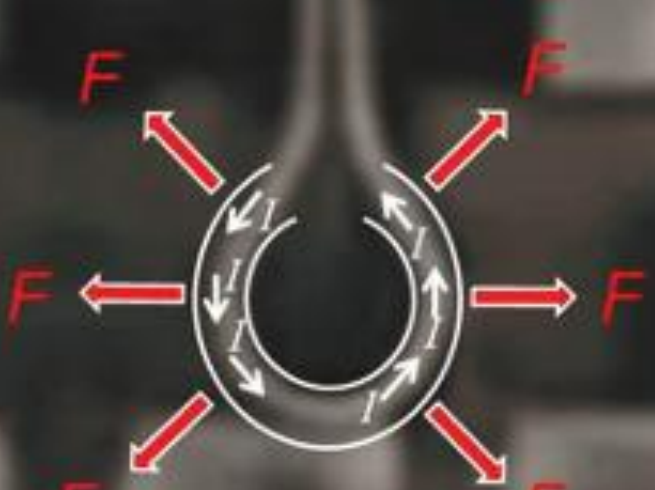
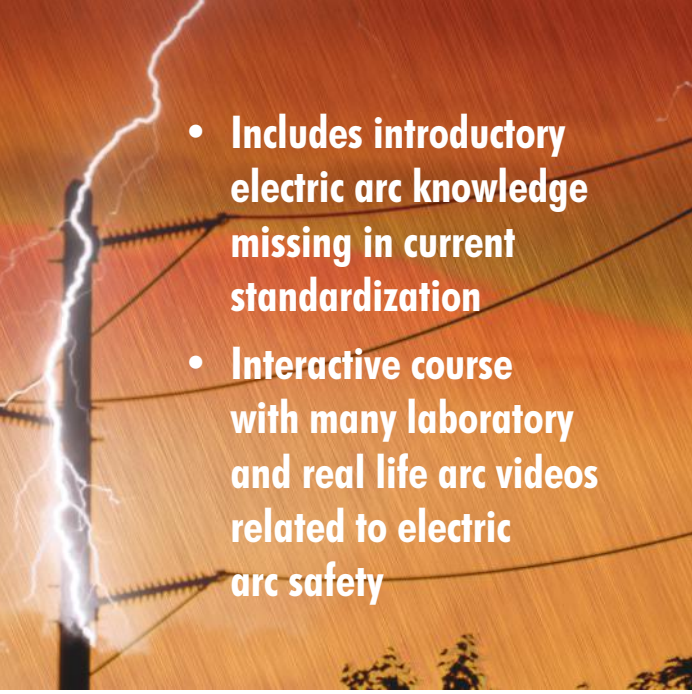
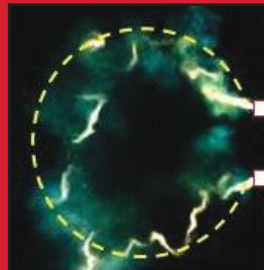
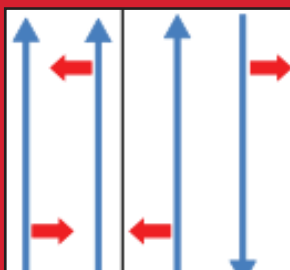


- Includes introductory electric arc knowledge missing in current standardization
- Interactive course with many laboratory and real life arc videos related to electric arc safety



## ARC FORCES AND SHAPES EXPLAINED



Free 1.5-hour electric arc safety training is available for small businesses for 250 employees or less until Sept. 2021. On-site or virtual training delivery is available.

### CONTACT US!

#### UNIVERSITY OF CENTRAL MISSOURI

Dr. Miaocong Wu, CSP, ARM  
Associate Professor  
miawu@ucmo.edu  
660-543-4411

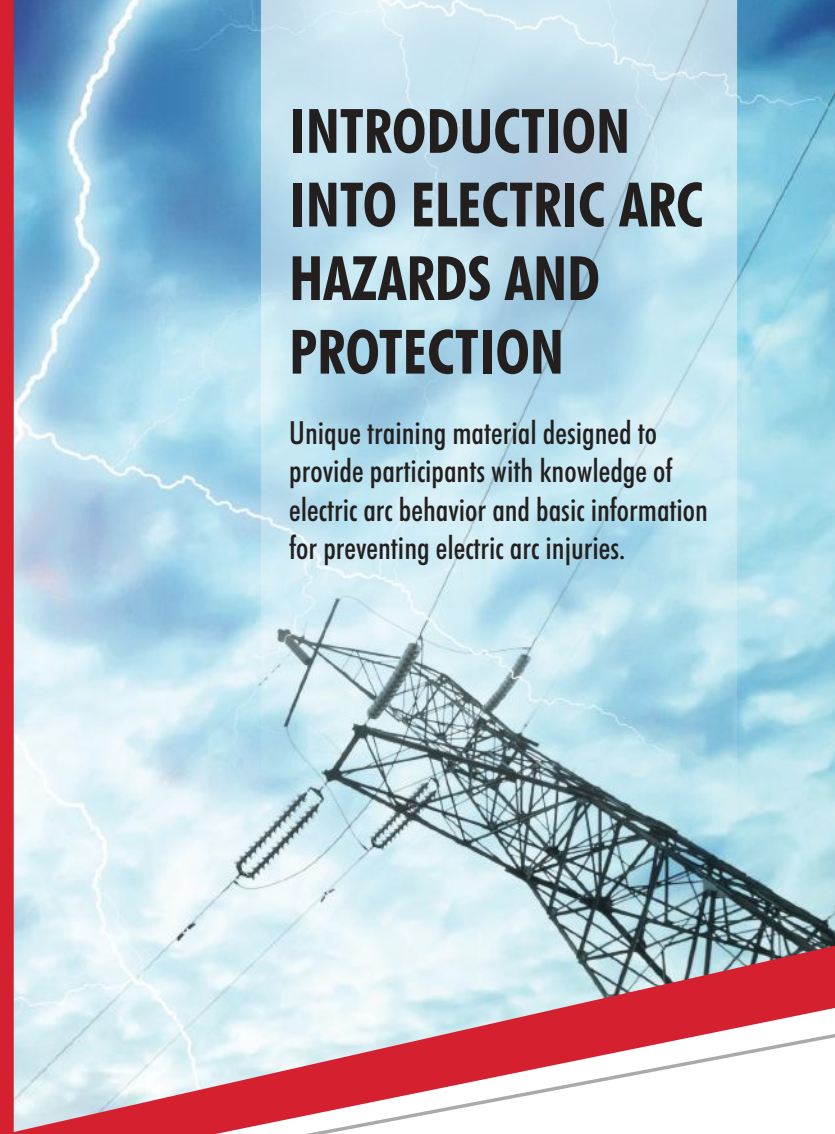
#### COURSE TECHNICAL INFORMATION

Mikhail Golovkov, M.S.  
mgolovkov@msn.com  
215-390-3205

Gavin Burdge, M.S., CSP, CIH  
gburdge@aol.com  
202-285-3504

## INTRODUCTION INTO ELECTRIC ARC HAZARDS AND PROTECTION

Unique training material designed to provide participants with knowledge of electric arc behavior and basic information for preventing electric arc injuries.



Developed under  
OSHA Susan Harwood Grant  
SH-99065-SHO

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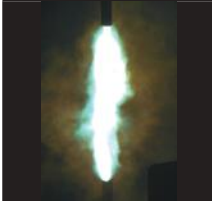
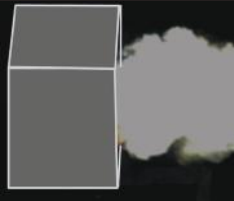



## OBJECTIVES

- Recognize electric arc hazards
- Understand how electric arcs can cause harm
- Understand different types of electric arcs
- Understand fundamentals of electric arc protection

## OUTLINE

1. Electric arc and its properties
2. Types of arcs and arc behavior evaluation: open air arc, box arc, moving arc, ejected arc and tracking arc
3. Electric arc hazards and fundamentals of electric arc protection

## ELECTRIC ARC TYPES AND PREDICTABILITY MATRIX

OPEN AIR ARC	ARC IN A BOX	MOVING ARC	EJECTED ARC	TRACKING ARC
				
in-line > 6 inches	in-line or parallel < 1.25 inches	long parallel electrodes > 6 inches	long parallel electrodes > 6 inches	any electrode configuration > 6 inches
medium and high voltage	low voltage	medium and high voltage	medium and high voltage	medium and high voltage
no enclosure	arc in enclosure	no enclosure	no enclosure	no enclosure
no contact	no contact	no contact	no contact	contact or flashover

- The type of electric arc can be predicted based on the Arc Type Matrix.
- Thermal energy dissipation is often directional and depends on arc type.
- The direction of thermal energy dissipation is predictable.

