



Burlington Safety Laboratory will be hosting pilot electric arc training developed by University of Central Missouri under OSHA Susan Harwood Grant SH-99065-SH0

- Unique training material designed to provide participants with knowledge of electric arc behavior and basic information for preventing electric arc injuries on a personal level.
- Includes introductory electric arc knowledge missing in current standardization.
- Interactive course with many laboratory and real life arc videos related to electric arc safety.

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

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.

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Interactive course with many laboratory and real life arc videos related to electric arc safety

ELECTRIC ARC TYPES AND PREDICTABILITY MATRIX

OPEN AIR ARC	ARC IN A BOX	MOVING ARC	EJECTED ARC	TRACKING ARC
in-line > 4 inches	in-line or parallel < 1.25 inches	long parallel electrodes > 4 inches	long parallel electrodes > 4 inches	very short side configuration > 4 inches
medium and high voltage	low voltage	medium and high voltage	medium and high voltage	medium and high voltage
no enclosure	no enclosure	no enclosure	no enclosure	no enclosure
no contact	no contact	no contact	no contact	contact or flashover

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

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OUTLINE

- Electric arc and its properties
- Types of arcs and arc behavior evaluations: open air arc, box arc, moving arc, ejected arc and tracking arc
- Electric arc hazards and fundamentals of electric arc protection

ARC FORCES AND SHAPES EXPLAINED

- 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.

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Dates for April 2021

Thursday, April 8

Thursday, April 15

Thursday, April 22

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