

Responding to Electrical Emergencies Outline

Responding To Electrical Emergencies: Estimated Time 1:15 to 1:30 hours

1. Introduction to Electricity overview

Overview

Scope and Players
Standards, Codes & Regulations
OSHA and Qualified Persons
State and Local Commissions
Summary

2. Understanding Electricity Overview

Overview

Street Smart Electricity

Terms and Behaviors
Electrical Size-Up
Paths of Resistance
Ohm's Law

Street-Smart Ohm's Law

Electrical Arcing

Potentials /Touch and Step

Potential Awareness
Shock vs. Electrocution

3. Electrical Grid

Overview

Electric Generation

Power Sources
Switchyards

Transmission Lines

Substations - Outdoor and Indoor

Substation Equipment
Substation Warning

Overhead Distribution Equipment

Overhead Distribution Equipment Part 2
Conductors
Utility Poles

Responding to Electrical Emergencies Outline

Wires on the Pole

Overhead Distribution Exercise

Wires Down

4. Responding to Electrical Emergencies

Overview

Electrical Hazards

Rescue in an Energized Emergency

Imminent Life Safety Hazard

Main Switch Safety

Breaking Current - A Recipe for Disaster

Equipment Safety Issues

Personal Protective Equipment

Fire Service Tools and Equipment

General Safety Considerations

Down Wires

One Span / Two Poles for Safety

Where Would You Park?

General Emergency Operations Part 1

General Emergency Operations Part 2

General Emergency Operations Part 3

Specific Tactical Guidelines

Solar Panel Emergencies

Solar Panel Diagram

Equipment Terminology Part 1

Equipment Terminology Part 2

Summary