

Susan Harwood Training Grant Outline Electrical Safety Training for General Industry

(4 Hours)

Welcome

Introduction

- 1. Grant Background
- 2. Learning Objectives

Training Topics

- 1. General Electrical Safety Information
 - a. Injury and Death Statistics Latest Year Available
 - b. Number of electrical injuries and deaths
 - c. Injury photos / videos
 - d. How this has changed in recent years
 - e. More performance improvement needed Goal: Zero
- 2. General Electrical Safe Work Practices
 - a. What is electricity voltage, amperage, frequency, insulators, conductors, AC/DC etc.
 - b. Generating, transmitting and distributing electricity (from a General Industry perspective)
 - c. Using electricity in general industry motors, electroplating, welding
 - d. Working safely around electricity
 - e. Engineering, Administrative and Procedural Controls and PPE
- 3. Common Hazards
 - a. Extension cord trip and shock hazards
 - b. Other shock hazards
- 4. Permitted and Non-permitted uses
- 5. Arc Flash
 - a. Conditions conducive to arc flash
 - b. Warning Signs Identifying Arc Flash conditions
 - c. Protecting yourself from an Arc Flashes
 - d. Boundaries
 - e. Authorized v. Affected workers

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- f. Engineering controls
- g. Administrative controls
- h. Procedural controls
- i. Personal Protective Equipment (Classes 1, 2, 3 & 4)
- 6. Energy Control Procedures (ECPs) / Lockout / Tag-out (LOTO)
 - a. Energy Sources Electrical, pneumatic, hydraulic, kinetic, capacitance, etc.
 - b. Locking out your equipment to safely service or clean it
 - c. Approved lockout procedure
 - d. Ensuring the machine is locked out while working on it
 - e. Returning the cleaned or serviced machine to service procedure
 - f. When written procedures are required
 - g. Verifying written procedures

Materials and Supplies:

- 1. PowerPoint
- 2. Training handout
- 3. Pre-test
- 4. Post-test
- 5. Electrical checklist
- 6. Training Certificate

The curriculum meets the 2024 NFP70e standards