

# 2011 OSHA Susan Harwood Capacity Building Grant

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## Lightning Strike Safety Awareness Lesson Plan

**Course Time: 120 Minutes**

**Course Description:** The course is intended to train and/or retrain company employees in the essential safety skills and knowledge for non-professional emergency procedures in Lightning Strike Safety Awareness. Upon successful completion of this course the participant will receive a course certificate. **Course Requirements:** Full attendance

### *Step 1: Planning the Lesson*

#### **Instructional Materials:**

- Power point presentation
- Student Hand outs
- Instructional Notes
- Audio-visual equipment
  - Level of Knowledge Quiz
  - Resource List
  - Certificate of Completion

#### **Learning Objectives:**

- Define facts associated with lightning
- Describe ways lightning can kill
- Illustrate how to protect yourself and co-workers against lightning hazards
- Analyze and discuss case studies

### *Step 2: Presenting the Lesson*

#### **Introduction: (10 minutes)**

- Introduce yourself
  - Include name

- Title & Experience / Credentials
- Explain facility emergency action plan procedures
- Discuss classroom rules
- Start the lesson with an “ice breaker” such as an applicable story to capture the participant’s attention, etc.

**Class Power Point Presentation: (45 Minutes)**

1. Lightning Awareness
2. The Risks: Injuries, Illnesses and Fatalities
3. What are the odds of being struck by lightning
4. Lightning is an electrostatic discharge and other forms of electromagnetic attracting Metal buildings objective and **heavy equipment.**
5. What are the closest and safest places to move workers to a designate shelter area if circumstances dictate?

**Classroom Participant Activity: (40 Minutes)**

- Each team will analyze and draft recommended safety audit corrections based on the DVD
- Each team will use a portable white board to document noted safety hazards & corrections.
- Each team will present their safety hazards & solutions to the class as a Inclement Weather Plan

**Course Summary: (15 Minutes)**

- Define a Weather Hazards
- Dangers of a Lightning
- How to protect themselves and others
- Safe and Unsafe Shelters
- Other Resources

**Participant Critiques: (10 Minutes)**

1. Student will complete a course critiques
2. Evaluation: Monitor participant non-verbal and verbal reactions

**References:**

- ELCOSH Lightning Safety. Retrieved from:
  - <http://www.elcosh.org/en/document/143/d000149/lightning-safety.html>
- National Weather Service: Retrieved from:
  - <http://www.lightningsafety.noaa.gov/myths.htm>