

**STANISLAUS COUNTY SHERIFF'S DEPARTMENT REGIONAL
TRAINING CENTER**

STOP Program

Effective Date: July 8, 2014

LD#41 – Hazardous Materials Awareness

TTS LD#41 I.-IV. (2 hours instructional time)

I. LEARNING NEED

Peace officers need to know the risks presented by hazardous materials and their role in responding to hazardous materials incidents.

- A. Identify a hazardous materials incident:
 - 1. Any emergency involving the release or potential release of a hazardous material.
 - 2. Materials that can present risks to life, the environment, and property.
 - 3. Materials some of which may be catastrophic and endanger entire communities, while others may not appear significant but have the potential for long-lasting effects.

- B. Identify the specific challenges that are presented by incidents involving hazardous materials:
 - 1. Difficulty in identifying the materials
 - 2. Potential long-and short-term health effects on humans and animals
 - 3. Environmental impact
 - 4. Public safety implications
 - 5. Multiple hazards (toxic, flammable, reactive, radioactive or corrosive hazards, physical hazards, etc.)
 - 6. Complexity of the situation (rescue problems, fire, flood, explosion, closures of major thoroughfares, closures of businesses, large perimeters, major evacuations, etc.)

- C. Recognize the roles and responsibilities of a First Responder at the awareness level

- D. Identify the primary pathways in which hazardous materials can enter the human body, including:
 - 1. Inhalation
 - 2. Absorption
 - 3. Ingestion
 - 4. Injection

- E. Identify precautions peace officers can take to protect themselves from contacting hazardous materials

II. LEARNING NEED

Peace officers must become familiar with the indicators and warning systems that identify specific dangers of hazardous materials in order to respond safely and effectively to hazardous materials incidents.

- A. Recognize the indicators of a hazardous materials incident including, but not limited to
 - 1. National Fire Protection Association 704 (NFPA)
 - 2. Placards/Labels
 - 3. Physical containers
 - 4. Witnesses or involved parties
 - 5. Container(s)
 - 6. Victim/injuries
- B. List standardized sources of information of materials present at a hazardous materials incident, including, but not limited to:
 - 1. *Emergency Response Guidebook* (ERG)
 - 2. Material Safety Data Sheets (MSDS)
 - 3. Shipping papers
 - 4. Other documents

III. LEARNING NEED

Peace officers must have a clear understanding of the need for safety, isolation, and notification when acting as First Responders at the scene of a hazardous materials incident.

- A.
- B.
- C.
- D.

AUDIO VISUAL

Power Point

REQUIRED LEARNING ACTIVITIES

- A. The student will participate in a learning activity designed to reinforce an understanding of first responder actions at the scene of a hazardous materials incident to include:
 - 1. Identification of the event as a hazardous materials incident
 - 2. Application of recommended safety precautions
 - 3. Use of the *Emergency Response Guidebook* (ERG) to determine the initial isolation and protective actions distances
 - 4. The need to isolate the scene
 - 5. Notification considerations

- B. The student will participate in a learning activity designed to reinforce an understanding of the indicators to determine the hazard potential of the suspected materials to include:
 - 1. Placard
 - 2. Sign
 - 3. Warning Label
 - 4. Any other indication

HANDOUT MATERIAL

Material Safety Data Sheets (MSDS)

U.S. Department of Transportation *Emergency Response Guidebook*

HOMEWORK

None

**LEARNING ACTIVITY
LD#41 I.-V.**

“Hazardous Materials Incident First On-Scene Actions”

Learning Activity #1: Small Group Activity