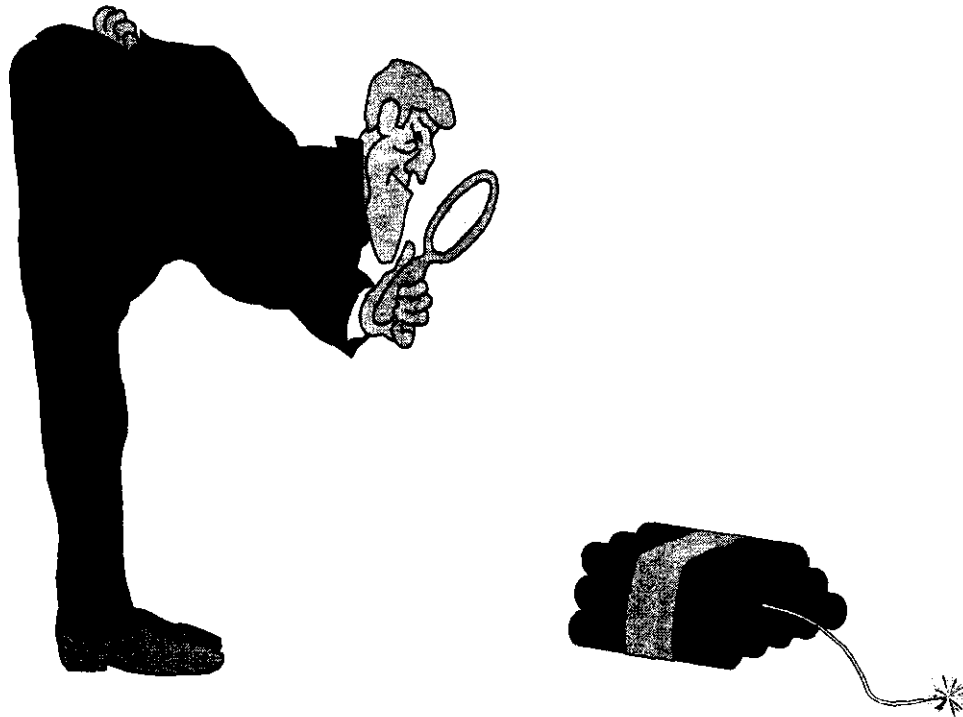


COURSE NUMBER 55-0506-10
7/5/2005
4 HOURS
RECOGNIZE & ID HAZ-MAT



CHAPTER 3

RECOGNIZING AND IDENTIFYING HAZARDOUS MATERIALS

Submitted for use by Athens-Clarke County Fire & Emergency Services
By Lieutenant Keith Holloman and Sergeant Ken Parsons

Planning Pages

Materials Needed

**Awareness Level Training for Hazardous
Materials (First Edition)**

DOT Emergency Response Guidebook

Lesson Preparation

Read Chapter 3 (pages 27-73)

**Familiarize yourself with Dot Emergency Response
Guidebook**

Chapter 3 :
Recognizing & Identifying Hazardous Materials –
Awareness Level

Lesson Prerequisites : None

Objectives :

Course :

After completing this lesson, the candidate should be able to recognize hazardous materials at the awareness level.

Lesson :

After completing this lesson, the candidate should be able to

1. Identify informal methods of hazardous material recognition.
2. Identify formal methods of hazardous material recognition.
3. Be able to utilize the DOT Emergency Response Guidebook
4. Identify Hazardous materials at fixed facilities

5. Identify Hazardous materials in transportation
6. Identify Hazardous materials by transport container
7. Identify Specialized Hazardous materials marking systems

Chapter 3 – Awareness Level Training for Hazardous Materials

Presentation

Introduction/Motivation

Explain : The importance of early recognition of hazardous materials involved in emergency responses.

Tell : Candidates that today's lesson is based on material found in Chapter 3 of the IFSTA Awareness Level Training for Hazardous Materials Textbook and the DOT Emergency Response Guidebook. This information will assist the student in meeting the objectives from NFPA 472 Standard for Professional Competence of Responders to Hazardous Material Incidents

Objective 1 : Informal methods of identifying hazardous materials. (pg32-36)

- a) Verbal reports
- b) Type of occupancy
- c) Location (hwy,rail,water,air,pipeline)
- d) Visual, physical/chemical indicators
- e) Trade & common names

Objective 2 : Formal methods of identifying hazardous materials (pg 37-46)

- a) ERG book**
- b) Transport Canada**
- c) Shippers emergency response center**
- d) CHEMTREC/CANUTEC**
- e) MSDS**

Objective 3 : Utilizing the DOT Emergency Response Guidebook (pg 37-40)

- a) UN/NA identification number index**
- b) Material name index**
- c) Table of placards**
- d) Guide no. 11**
- e) Initial Action Guides**
- f) Table of isolation and protective action**

Objective 4 : Hazardous materials identification at fixed facilities (pg 46-51)

- a) identifying the fire hazards of materials at fixed facilities.**
- b) identifying containers at fixed facilities**
- c) aboveground storage tanks**
- d) underground storage tanks**

Objective 5 : Hazardous materials identification in transportation (pg 51-66)

- a) U.N. class system**
- b) Number id system**
- c) Communication of hazards**
- d) Shipping papers**
- e) Markings**
- f) Labels**
- g) Placards**

Objective 6 : Hazardous material identification by transportation container. (pg 66-70)

- a) Bulk & non-bulk packaging**
- b) cylinders**

Objective 7 : Identification of specialized hazardous material marking systems (pg 70-73)

- a) military markings**
- b) pesticide labels**
- c) pipeline identification**
- d) PCBs identification**

Lesson Summary :

Review :

- 1. All methods of identifying and recognizing hazardous materials.**
- 2. Any questions concerning DOT Emergency Response Guidebook usage.**
- 3. Review the various marking systems and container shapes identifying hazardous materials.**

References Consulted :

Awareness Level Training for Hazardous Materials,
First Edition, Stillwater, Oklahoma :
IFSTA/Fire Protection Publications 1995

2000 Emergency Response Guidebook

*NFPA 472 Standard for Professional Competence of
Hazardous Materials Incidents*

29 CFR 1910.120