

**HAZARDOUS MATERIALS
FIRST RESPONDER
AWARENESS**

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Course Description

This course introduces the student to the principles of recognizing hazardous materials presence, protecting themselves from hazardous materials and calling for trained personnel, and securing the area safely.

Prerequisites: NONE

Corequisite: NONE

Task List

1.	Identify the definition of hazardous materials.
2.	Identify the DOT hazard classes and divisions of hazardous materials and identify common examples of materials in each hazard class or division.
3.	Identify the primary hazards associated with each of the DOT hazard classes and divisions of hazardous materials by class or division.
4.	Identify typical container shapes that may indicate hazardous materials.
5.	Identify typical occupancies and locations in the community where hazardous materials are manufactured, transported, stored, used, or disposed of.
6.	Identify typical container shapes that may indicate hazardous materials.
7.	Identify facility and transportation marking and colors that indicate hazardous materials, including: <ul style="list-style-type: none"> a. UN/NA identification numbers; b. NFPA 704 markings; c. Military hazardous materials markings; d. Special hazard communication markings; e. Pipeline marker; and f. Container markings.
8.	Given an NFPA 704 marking, identify the significance of the colors, numbers and special symbols.
9.	Identify U.S. and Canadian placards and labels that indicate hazardous materials.
10.	Identify the basic information on material safety data sheets (MSDS) and shipping papers that indicates hazardous materials.
11.	Identify where to find material safety data sheets (MSDS).
12.	Identify entries on a material safety data sheet that indicate the presence of hazardous materials.
13.	Identify the entries on shipping papers that indicate the presence of hazardous materials.
14.	Match the name of the shipping papers found in transportation (air, highway, rail, and water) with the mode of transportation.
15.	Identify the person responsible for having the shipping papers in each mode of transportation.
16.	Identify where the shipping papers are found in each mode of transportation.
17.	Identify where the papers may be found in an emergency in each mode of transportation.
18.	Identify examples of clues (other than occupancy/location, container shape, markings/color, placard/labels and shipping papers) that use the senses of sight, sound, and odor to indicate hazardous materials.
19.	Describe the limitations of using the senses in determining the presence or absence of hazardous materials.
20.	Identify difficulties encountered in determining the specific names hazardous materials in both facilities and transportation.
21.	Identify sources for obtaining the names of, UN/NA identification numbers for, or types of placard associated with hazardous materials in transportation.
22.	Identify sources for obtaining the names of hazardous materials in a facility.
23.	Identify the ways hazardous materials are harmful to people, the environment, and property at hazardous materials incidents.
24.	Identify the general routes of entry for human exposure to hazardous materials.
25.	Given the current edition of the Emergency Response Guidebook, identify the three methods for determining the appropriate guide page for a specific hazardous material.

26.	Given the current edition of the Emergency Response Guidebook, identify the two general types of hazards found on each guide page.
27.	Identify the location of both the local emergency response plan and the organization's standard operating procedures.
28.	Given a copy of the current edition of the Emergency Response Guidebook, describe the difference between the protective action distances in the orange-bordered guide pages and the green-bordered pages in the document.
29.	Given the local emergency response plan or the organization's standard operating procedures, identify the role of the first responder at the awareness level during a hazardous materials incident.
30.	Given the local emergency response plan or the organization's standard operating procedures, identify the basic precautions to be taken to protect himself/herself and others in a hazardous materials incident.
31.	Identify the precautions necessary when providing emergency medical care to victims of hazardous materials incidents.
32.	Identify typical ignition sources found at scenes of hazardous materials incidents.
33.	Given the identity of various hazardous materials (name, UN/NA identification number, or type placard), identify the following response information using the current edition of the Emergency Response Guidebook: a. Emergency action (fire, spill, or leak and first aid); b. Personal protective equipment necessary; and c. Initial isolation and protective action distances.
34.	Given the current edition of the Emergency Response Guidebook and the name of a hazardous material, identify the recommended personal protective equipment for the particular incident from the following list of protective equipment: a. Street clothing and work uniforms; b. Structural firefighters' protective clothing; c. Positive pressure self-contained breathing apparatus; d. Chemical-protective clothing and equipment.
35.	Given the current edition of the Emergency Response Guidebook, identify the definitions for each of the following protective actions: a. Isolate hazard area and deny entry; b. Evacuate; and c. In-place protection
36.	Given the current edition of the Emergency Response Guidebook, identify the shapes of recommended initial isolation and protective action zones.
37.	Given the current definition of the Emergency Response Guidebook, describe the difference between small and large spills as found in the table of isolation distances.
38.	Given the current edition of the Emergency Response Guidebook, identify the circumstances under which the following distances are used at a hazardous materials incident: a. Table of initial isolation and protective action distances; and b. Isolation distances in the numbered guides.
39.	Identify the techniques used to isolate the hazard area and deny entry to unauthorized persons at hazardous materials incidents.
40.	Identify the initial notification procedures for hazardous materials incidents in the local emergency response plan or the organization's standard operating procedures.

Instructor Equipment List

Projector screen
Chalkboard or marker board
Overhead projector
Slide projector
TV/VCR

Old FRT 235 / FRT 124