

HAZARDOUS MATERIALS INCIDENT COMMAND
Equivalency Checklist
6/16/98

INTRODUCTION

- _____ 27-1.1. Identify the four main areas covered in the Hazardous Materials Incident Command Course.
- _____ 27-1.2. Identify the certification requirements as stated in the Office of the State Fire Marshal's Administrative Rules.
- _____ 27-1.3. Identify three NFPA Standards that require or recommend the usage of an Incident Command System.
- _____ 27-1.4. Identify the principles of an incident management system necessary to coordinate response activities at hazardous materials incidents.
- _____ 27-1.4.1. Identify five goals of an Incident Command System.
- _____ 27-1.4.2. Identify the management concepts on which an Incident Command System is based as presented in class.
- _____ 27-1.4.3. Identify what agencies can initiate the Incident Command System.
- _____ 27-1.4.4. Identify the seven components of an Incident Command System.
- _____ 27-1.4.5. Identify the two types of Incident Command Systems as presented in class.
- _____ 27-1.4.6. Identify three levels used in Incident Command Systems.
- _____ 27-1.4.7. Identify traits of an incident commander as presented in class.
- _____ 27-1.5. Identify Incident Command procedures as presented in class.
- _____ 27-1.5.1. Identify four responsibilities of an Incident Commander.
- _____ 27-1.5.2. Identify functions of command as presented in class.
- _____ 27-1.5.3. Identify the procedures to follow when assuming Command.
- _____ 27-1.5.4. Identify the Optional modes available as presented in class.
- _____ 27-1.5.5. Identify the four components of the initial radio report.
- _____ 27-1.5.6. Identify the types and use of communications used in Incident Command Systems.

- _____ 27-1.5.7. Identify the considerations of locating the Command Post as presented in class.
- _____ 27-1.5.8. Identify the procedures to follow when using a Tactical Worksheet as presented in class.
- _____ 27-1.6. Identify the Incident Command "System" as presented in class.
- _____ 27-1.6.1. Identify five benefits of sectors/sections in an Incident Command System.
- _____ 27-1.6.2. Identify the organizational terms used in an Incident Management System.
- _____ 27-1.6.3. Identify six typical sectors/divisions used during a Hazardous Materials Incident.

ANALYZING THE PROBLEM

_____ 27-2.1. Identify the types of hazard and response information available from each of the following resources (5-2.1.1)

- _____ (a) Reference manuals
- _____ (b) Hazardous materials data bases
- _____ (c) Technical information centers
- _____ (d) Technical information specialists
- _____ (e) Monitoring equipment
- _____ (f) Computers with FAX machines

_____ 27-2.2. Identify advantages and disadvantages of each of the following resources (5-2.1.1)

- _____ (a) Reference manuals
- _____ (b) Hazardous materials data bases;
- _____ (c) Technical information centers;
- _____ (d) Technical information specialists;
- _____ (e) Monitoring equipment.
- _____ (f) Computers with FAX machines

_____ 27-2.3. Given the dimensions and the surrounding conditions of an endangered area of a hazardous material incident, identify the steps for estimating the number of exposures within the endangered area. (5-2.2.1)

_____ 27-2.4. Match the following toxicological terms and exposure values with their significance in predicting the extent of health hazards in a hazardous materials incident (5-2.2.2)

- _____ (a) Immediately dangerous to life and health value (IDLH)
- _____ (b) Lethal concentrations (LC50)

- _____ (c) Lethal dose (LD50)
- _____ (d) Permissible exposure limit (PEL)
- _____ (e) Threshold limit value ceiling (TLV-C)
- _____ (f) Threshold limit value short-term exposure limit (TLV-STEL)
- _____ (g) Threshold limit value time-weighted average (TLV-TWA)
- _____ (h) Parts per million (ppm), parts per billion (ppb)
- _____ (i) Emergency response planning guide value (ERPG)

_____ 27-2.5. Match the following terms associated with radio-active materials with their significance in predicting the extent of health hazards in a hazardous materials incident. (5-2.2.3)

- _____ (a). Alpha radiation;
- _____ (b). Beta radiation;
- _____ (c). Gamma radiation;
- _____ (d). Half-life; and
- _____ (e). Time
- _____ (f). Distance
- _____ (g). Shielding

_____ 27-2.6. Identify the method for predicting the areas of potential harm within the endangered area of a hazardous materials incident. (5-2.2.4)

PLANNING THE RESPONSE

_____ 27-3.1. Identify the steps for determining response objectives (defensive, offensive, and nonintervention) given an analysis of a hazardous materials incident. (5-3.1.1)

_____ 27-3.2. Identify the possible action options to accomplish a given response objective. (5-3.2.1)

_____ 27-3.3. Identify the purpose of each of the following techniques for hazardous materials control: 5-3.2.2)

- _____ (a) Adsorption;
_____ (b) Neutralization;
_____ (c) Overpacking; and
_____ (d) Patch and plug.

_____ 27-3.4. Identify the four levels of chemical protection (EPA/NIOSH) and match the equipment required for each level with the conditions under which each level is used. (5-3.3.1)

_____ 27-3.5. Match the following terms with their impact and significance on the selection of chemical-protective clothing: (5-3.3.2)

- _____ (a) Degradation;
_____ (b) Penetration; and
_____ (c) Permeation.

_____ 27-3.6. Identify the safety considerations for personnel wearing vapor-protective, , liquid splash-protective, and high temperature-protective clothing. (5-3.3.3)

_____ 27-3.7. Identify the physiological and psychological stresses that can affect users of specialized protective clothing. (5-3.3.4)

_____ 27-3.8. Identify the order of steps for developing a plan of action consistent with the local emergency response plan and the organization's standard operating procedures and within the capability of available personnel, personal protective equipment, and control equipment. (5-3.4.1)

_____ 27-3.9. Identify the factors to be evaluated in selecting public protective actions including evacuation and in-place protection. (5-3.4.2)

_____ 27-3.10. Given the local emergency response plan or the organization's standard operating procedures, identify which agency will: (5-3.4.3)

- _____ (a) Receive the initial notification.
- _____ (b) Provide secondary notification and activation of response agencies;
- _____ (c) Make on-going assessments of the situation;
- _____ (d) Command on-scene personnel (incident management system);
- _____ (e) Coordinate support and mutual aid;
- _____ (f) Provide law enforcement and on-scene security (crowd control);
- _____ (g) Provide traffic control and rerouting;
- _____ (h) Provide resources for public safety protective action (evacuation or in-place protection);
- _____ (i) Provide fire suppression services when appropriate;
- _____ (j) Provide on-scene medical assistance (ambulance) and medical treatment (hospital);
- _____ (k) Provide public notification (warning);
- _____ (l) Provide public information (news media statements);
- _____ (m) Provide on-scene communications support;
- _____ (n) Provide on-scene decontamination when appropriate;

- _____ (o) Provide operational-level hazard control services;
- _____ (p) Provide technician-level hazard mitigation services
- _____ (q) Provide environmental remedial action ("cleanup") services.

_____ 27-3.11. Identify the process for determining the effectiveness of an action option n the potential outcomes. (5-3.4.4)

_____ 27-3.12. Identify the procedures for presenting a safety briefing prior to allowing personnel to work on a hazardous materials incident. (5-3.4.5)

IMPLEMENTING THE PLANNED RESPONSE

_____ 27-4.1. Identify the steps for implementing the local and related emergency response plans as required under SARA Title III Section 303 of the federal regulations or other local emergency response planning legislation. (5-4.1.2)

_____ 27-4.2. Given the local emergency response planning documents, identify the elements of each of the documents. (5-4.1.3)

_____ 27-4.3. Identify the primary local, state, regional, and federal government agencies and identify the scope of their regulatory authority (including the regulations) pertaining to the production, transportation, storage, and use of hazardous materials and the disposal of hazardous wastes. (5-4.1.5)

_____ 27-4.4. Identify the governmental agencies and private sector resources offering assistance during a hazardous materials incident, and identify their role and the type of assistance or resources available. (5-4-1-6)

_____ 27-4.5. Identify the process and procedures for obtaining cleanup and restoration services in the local emergency response plan or organization's standard operating procedures. (5-4.1.1)

INCIDENT COMMAND PRINCIPLES

_____ 27-5.1. Identify the elements of the incident management system necessary to coordinate response activities at hazardous materials incidents. (5-4.1.4)

_____ 27-5.1.1. Identify five goals of an Incident Command System.

_____ 27-5.1.2. Identify what agencies can initiate the Incident Command System.

_____ 27-5.1.3. Identify the seven components of an Incident Command System.

_____ 27-5.1.4. Identify the two types of Incident Command Systems as presented in class.

_____ 27-5.1.5. Identify three levels used in Incident Command Systems.

_____ 27-5.2. Identify Incident Command Procedures as presented in class.

_____ 27-5.2.1. Identify four responsibilities of an Incident Commander.

_____ 27-5.2.2. Identify eight command functions used in Incident Command Systems.

_____ 27-5.2.3. Identify the procedures to follow when assuming Command.

_____ 27-5.2.4. Identify the Command Options available as presented in class. (5-4.2.1.3)

_____ 27-5.2.5. Identify the four components of the initial radio report.

_____ 27-5.2.6. Identify the types and use of communications used in Incident Command Systems.

- _____ 27-5.2.7. Identify the principles of Command Post operation as presented in class.
- _____ 27-5.2.8. Identify the procedures to follow when using a Tactical Worksheet as presented in class.
- _____ 27-5.2.9. Identify ten considerations an Incident Commander must concern themselves with as presented in class.
- _____ 27-5.3. Identify the Incident Command "System" as presented in class.
- _____ 27-5.3.1. Identify five indicators the Incident Command System should be used as presented in class.
- _____ 27-5.3.2. Identify five benefits of an Incident Command System.
- _____ 27-5.3.3. Identify five goals of an Incident Command System.
- _____ 27-5.3.4. Identify characteristics of sectors/divisions used during a Hazardous Materials Incident.
- _____ 27-5.3.5. Identify six typical sectors/divisions used during a Hazardous Materials Incident.
- _____ 27-5.3.6. Identify the responsibilities / functions of the sectors presented in class. (5-4.3.1 & 5-4.3.2)
- _____ 27-5.4. Identify the characteristics and procedures for establishing an Action Plan as presented in class.
- _____ 27-5.5. Identify the steps required in terminating the emergency phase of a hazardous materials incident. (5-4.2.1.1)

EVALUATING PROGRESS

- _____ 27-6.1. Identify the procedures for evaluating whether the action options are effective in accomplishing the objectives.
- _____ 27-6.2. Given a simulated hazardous materials incident, determine the effectiveness of:
- _____ (a) Personnel being used;
 - _____ (b) Personal protective equipment;
 - _____ (c) Established control zones; and
 - _____ (d) Decontamination process.
- _____ 27-6.3. Identify the steps for comparing actual behavior of the material and the container to that predicted in the analysis process.
- _____ 27-6.4. Identify the reporting requirements of federal, state, and local agencies. (5-5.2.1)
- _____ 27-6.5. Identify the importance of documentation for a hazardous materials incident including training records, exposure records, incident reports, and critique reports. (5-5.2.2)
- _____ 27-6.6. Identify the steps in keeping an activity log and exposure records for hazardous materials incidents. (5-5.2.3)
- _____ 27-6.7. Identify the requirements for compiling hazardous materials incident reports found in the local emergency response plan and the organization's standard operating procedures. (5-5.2.4)
- _____ 27-6.8. Identify the requirements for filing documents and maintaining records found in the local emergency response plan and the organization's standard operating procedures. (5-5.2.5)
- _____ 27-6.9. Identify the procedures for conducting incident debriefings at a hazardous materials incident. (5-4.2.1.2)
- _____ 27-6.10. Identify the procedure for conducting a critique of a hazardous materials incident. (5-5.3.1)

() Denotes NFPA 472 Objective Numbers