

PTS Publications
A Division of Performance Training Systems, Inc.

Hazardous Material Awareness

Exam Prep I-1

Sixth Edition - 2019

Please read instructions on next page!

Exam I-1: 75 Exam Items - Surveying Weaknesses

The reading list for Exam I-1 is as follows:

1. IFSTA, *Hazardous Materials for First Responders*, 4th Edition, Chapters 1 -5.
2. Jones and Bartlett Learning, *Hazardous Materials Awareness and Operations*, 3rd Edition, Chapters 2 -6.
3. IFSTA of Fire Fighting, 7th Edition, Chapter 25.

Directions:

Remove Examination I-1 from the manual. The reason for removing the exam from the book is to make it easier to score and conduct the research for those guessed and missed exam items. Another advantage is the portability of the exam so research and scoring can be accomplished at any time or place. It is important to take exams in a place like the examination environment; quiet, with no interruptions. Review the Time Management Chart and directions in Phase III, then practice them with each of the examinations. You will be surprised how soon you can master the techniques and how more relaxed you will be in the actual examination environment.

First, take a careful look at the test. There should be 75 test items. In Appendix C you will find an Answer Form for Hazardous Material Awareness I-1 Examination. It can be removed from the book for ease of marking. Fill in the appropriate bubble answer (A-D) **in ink**.

Remember the rule about changing the answer. Our research has shown that changed answers are often incorrect, and often, the answer that is chosen first is the correct one.

If you **guess** the answer to a question, place an "X" or a checkmark by your answer. This step is vitally important as you gain and master knowledge. We will explain how we treat the "guessed" items later in SAEP®.

Next, take the examination. Once you complete it, go to Appendix A and score your test. Once the test is scored, carefully follow the directions for feedback on the missed and guessed exam items.

1. The two types of potential hazards found in each guide of the *Emergency Response Guidebook* are:

- | | |
|-------------------------------|---------------------|
| A. reactivity and solubility. | B. spill and leak. |
| C. corrosive and flammable. | D. health and fire. |

2. The fact that a product is water reactive would be indicated in the ____ quadrant of the National Fire Protection Association 704 System.

- | | | | |
|---------|--------|----------|-----------|
| A. blue | B. red | C. white | D. yellow |
|---------|--------|----------|-----------|

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3. United Nations/Department of Transportation placards indicate general hazard recognition by:

- A. using the numbers 0-4 to indicate relative risk
- B. always indicating the product name.
- C. giving the UN hazard class number.
- D. the shape of the placard.

4. Local emergency response personnel can gain valuable information if the _____ is utilized in preincident planning.

- A. Emergency Response Guide
- B. Local Emergency Planning Committee
- C. Shipping Paper
- D. Bill of Lading

5. When transporting hazardous materials shipping papers should contain:

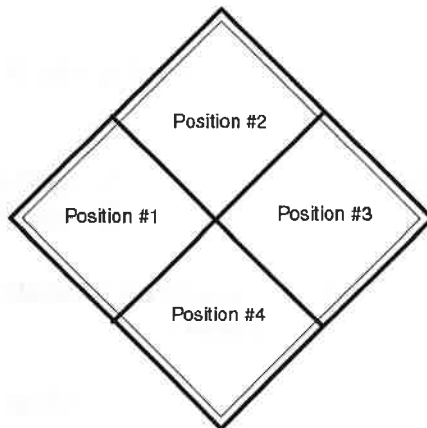
- A. hazard class of the material.
- B. CHEMTREC® phone number.
- C. antidotes for the material.
- D. recommended protective actions.

6. On a placard, the number at the bottom of the diamond indicates the:

- A. hazard class.
- B. guide number from the *DOT Emergency Response Guidebook* to be used.
- C. United Nations product identification number.
- D. relative risk.

7. **Directions:** Given the illustration below of a National Fire Protection Association 704 placard, answer this and the following three questions.

Position #1 is the information and degree of hazard relating to a chemical's:



- A. flammability (red).
- B. health (blue).
- C. special information (white).
- D. reactivity (yellow).

8. Position #2 is the information and degree of hazard relating to a chemical's:
- | | |
|-------------------------|---------------------------------|
| A. flammability (red). | B. health (blue). |
| C. reactivity (yellow). | D. special information (white). |
9. Position #3 is the information and degree of hazard relating to a chemical's:
- | | |
|---------------------------------|------------------------|
| A. special information (white). | B. health (blue). |
| C. reactivity (yellow). | D. flammability (red). |
10. Position #4 is the information and degree of hazard relating to a chemical's:
- | | |
|-------------------------|---------------------------------|
| A. health (blue). | B. flammability (red). |
| C. reactivity (yellow). | D. special information (white). |
11. The National Fire Protection Association (NFPA) lists _____ as the standard for identifying chemical hazards of materials at fixed facilities.
- | | | | |
|--------|---------|--------|-------------|
| A. 704 | B. 1991 | C. 472 | D. 1910.120 |
|--------|---------|--------|-------------|
12. A substance that readily yields oxygen to support combustion of fuels, would be labeled Hazard Class:
- | | | | |
|-------|-------|-------|-------|
| A. 3. | B. 5. | C. 7. | D. 9. |
|-------|-------|-------|-------|
13. A container of flammable solids would receive a United Nations Label or placard with a hazardous classification number of:
- | | | | |
|-------|-------|-------|-------|
| A. 1. | B. 2. | C. 3. | D. 4. |
|-------|-------|-------|-------|
14. Within the United Nations/Department of Transportation System, a container labeled with a Hazard Class **4** contains a:
- | | |
|------------------------|----------------------|
| A. combustible liquid. | B. flammable gas. |
| C. flammable solid. | D. flammable liquid. |
15. Of the references listed below, the most specific source of information on a hazardous material is the:
- | |
|--|
| A. <i>Department of Transportation Emergency Response Guidebook.</i> |
| B. Safety Data Sheet. |
| C. Department of Transportation Placards. |
| D. National Fire Protection Association 704 System. |

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16. Composition, hazards, and first aid measures are all parts of the:
- A. Dangerous Cargo Manifest.
 - B. *Emergency Response Guidebook*.
 - C. Safety Data Sheet.
 - D. United Nations Identification System
17. An Air Bill may be in the:
- A. cockpit.
 - B. flight attendant area.
 - C. overhead compartment.
 - D. cargo hold.
18. The Environmental Protection Agency signal word - Caution - indicates:
- A. danger Level of toxicity.
 - B. intermediate level of toxicity.
 - C. minor Level of toxicity.
 - D. moderate level of toxicity.
19. The National Fire Protection Association 704 system is designed for:
- A. occupational exposures.
 - B. biological agents.
 - C. transportation.
 - D. fixed facilities.
20. The Department of Transportation Hazard Class 8 consists of:
- A. flammable liquids.
 - B. explosives.
 - C. corrosives.
 - D. poisons.
21. If a chemical name is highlighted in the *Emergency Response Guidebook*, the table of initial isolation and protective action distances are found in the _____ section.
- A. white
 - B. green
 - C. yellow
 - D. blue
22. The Department of Transportation Hazard Class 7 consists of:
- A. oxidizers.
 - B. poisons.
 - C. radioactive substances.
 - D. corrosives.
23. One resource that deals with protective action distances involving toxic gas is the:
- A. *DOT Emergency Response Guidebook*.
 - B. Material Safety Data Sheet.
 - C. NFPA Hazardous Materials Data Base.
 - D. *Fire Chief's Handbook*.

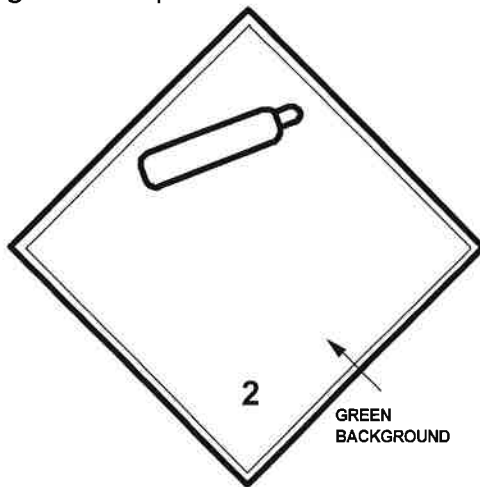
24. Upon arrival at a hazardous material incident involving a truck, you locate the 4-digit ID number on an orange panel. You should look first in the *Emergency Response Guidebook* for guidance in the:

- A. green-bordered section.
- B. blue-bordered section.
- C. yellow-bordered section.
- D. orange-bordered section.

25. _____ radioactive materials can be packaged in small containers as well as those weighing over 100 tons.

- A. Type C
- B. Industrial
- C. Type A
- D. Type B

26. The placard drawing below represents which hazard class?



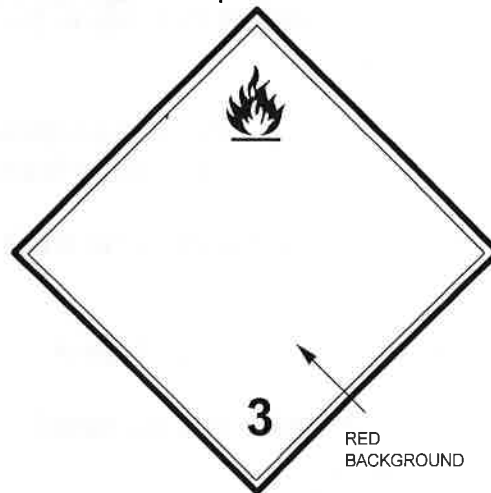
- A. Explosives
- B. Nonflammable gas
- C. Flammable solid
- D. Oxidizer

27. The placard drawing below represents:



- A. Poisons
- B. Oxidizer
- C. Flammable gases
- D. Corrosives

28. The placard illustration below represents:



- A. Flammable gases
B. Corrosives
C. Flammable liquids/combustibles
D. Explosives
29. The Department of Transportation Hazard Class 2 includes:
- A. flammable solids.
B. poison liquid.
C. nonflammable gases.
D. corrosive poisons.
30. The Department of Transportation (DOT) Hazard Class 6 includes:
- A. liquid poisons.
B. military agents.
C. flammable solids.
D. poison gases.
31. The Department of Transportation (DOT) Hazard Class 1 includes:
- A. flammable solids.
B. explosives.
C. corrosives.
D. nonflammable gases.
32. Placards that contain the Department of Transportation Class number 6 at the bottom identify:
- A. corrosives.
B. oxidizers.
C. an infectious substance hazards.
D. explosives.
33. The National Fire Protection Association 704 System indicates hazardous materials as:
- A. potential hazards.
B. a chemical name.
C. a five-digit number.
D. the name of the product.

34. According to the National Fire Protection Association 704 System, the most dangerous chemical would have a placard showing which number sets?
- A. 4, 4, 2 B. 3, 2, 1 C. 0, 2, 4 D. 3, 3, 2
35. A substance that readily yields oxygen to support combustion of fuels would be labeled _____ under the United Nations Labeling System.
- A. 3 B. 5 C. 7 D. 9
36. During the size up of a facility, the firefighter should utilize the National Fire Protection Association 704 System to identify the:
- A. amount of product stored. B. flammability of the material.
C. signs and symptoms of exposure. D. specific chemicals stored.
37. The person responsible for control of the air-bill papers is the:
- A. pilot. B. co-pilot.
C. flight attendant. D. material owner.
38. Shipping papers are referred to as _____ and usually stored _____.
- A. dangerous cargo manifest; in the cockpit
B. waybill; in the cargo compartment
C. air bill; in the cockpit
D. bill of lading; in the cargo compartment.
39. **Directions:** Read the statements below and select the correct answer from alternatives A-D.
- Statement 1: If placards are clearly displayed on the transportation mode, shipping papers are not required.
- Statement 2: If a transportation mode is not carrying hazardous materials, there is no requirement for specific information to be provided on shipping papers.
- Statement 3: Shipping papers must contain the proper name of the chemical amount and weight.
- A. All three statements are true.
B. Statements 1 and 2 are false; statement 3 is true.
C. Statements 1 and 3 are true; statement 2 is false.
D. Statement 1 is false; statements 2 and 3 are true.

40. **Directions:** Read the following statements regarding pesticide labeling and select the correct answer from alternatives A-D.

Statement 1: Environmental Protection Agency labels on pesticides must contain one of the signal words DANGER, WARNING or CAUTION.

Statement 2: The word DANGER is used on labeling for packages containing highly toxic materials.

Statement 3: The signal words EXTREMELY FLAMMABLE are also displayed if package contents have a flash point below 70°F.

- A. Statement 1 is true; statements 2 and 3 are false.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statements 1 and 3 are true; statement 2 is false.
- D. All three statements are true.

41. You would expect to find the emergency action for a spill or leak in the _____ section of the *Emergency Response Guidebook*.

- A. blue.
- B. yellow.
- C. green.
- D. orange.

42. To establish an isolation perimeter for an incident inside a building, you should:

- A. post personnel at the entrance to deny access.
- B. limit access at the nearest intersection.
- C. evacuate the building starting with the lowest floor.
- D. perform air monitoring to each floor and then deny access to that floor.

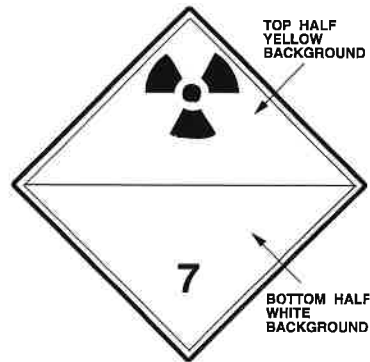
43. To avoid hazards, which action would be instituted in the hazard-control zone?

- A. Firefighters should prevent unauthorized personnel from entering.
- B. The command post should be established in the warm zone.
- C. Establish the following zones: restricted, limited, unlimited.
- D. The zone should be selected as small as possible and only expanded if necessary.

44. Which information should be provided during the notifications?

- A. Cost estimate for cleanup
- B. Name of supervisor
- C. Container type
- D. Name of the hospital receiving patients

45. The hazard class represented by the placard illustration below is:



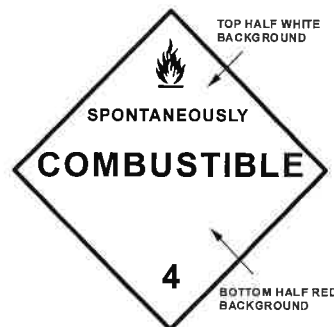
- A. radioactives.
- B. poison gases.
- C. flammable liquids.
- D. corrosives.

46. Which label indicates the product is a gas?

A.



B.



C.



D.



47. The flammable range is the:

- A. weight of a substance compared to the weight of an equal volume of water.
- B. percentage of gas or vapor concentration in air.
- C. minimum temperature at which a liquid gives off vapors.
- D. minimum temperature at which a liquid fuel gives off enough vapors to form an ignitable mixture with air near its surface.

48. What are some of the signs and symptoms of body irritants?

- A. *White vapor cloud*
- B. Unexplained skin, eye, or airway irritation
- C. Metallic taste
- D. Unequal pupils

49. What is a factor that should raise your awareness of possible terrorism involvement?

- A. Occupancy
- B. Location of caller
- C. Time of day
- D. Day of week

50. In the course of extinguishing a small fire in an unoccupied house you discover the presence of chemicals and glass jars, a possible clue to activity that is indicative of:

- A. bomb making.
- B. warfare agent research.
- C. drug making.
- D. terrorism agent production.

51. Which is recognized as a biological agent?

- A. Lewisite
- B. Phosgene
- C. V-agent
- D. Anthrax

52. **Directions:** Read the statements below and select the correct answer from alternatives A-D.

Statement 1: Examples of nerve agents are sarin, soman, and V agent/VX.

Statement 2: The most toxic, least volatile nerve agent is V agent/VX.

Statement 3: Nerve agents are very effective due to their high vapor pressure.

- A. Statement 1 is false; statements 2 and 3 are true.
- B. Statements 1 and 2 are true; statement 3 is false.
- C. Statements 1 and 3 are true; statement 2 is false.
- D. All three statements are true.

53. A recon team is sent to observe a tank truck that has rolled over. The team reports that the vehicle is an MC 312. The container most probably contains a:

- A. flammable liquid.
- B. corrosive liquid.
- C. poison gas.
- D. flammable solid.

54. A single manhole assembly protected by a flash box and roll-over protection is an identification feature of an _____ carrier shown in the picture.



- A. MC 306/DOT 406
- C. MC 312/DOT 412

- B. MC 307/DOT 407
- D. MC 331

55. A tank carrier designed to carry flammable liquids, combustible liquids, Class B poisons, and liquid food products with vapor pressures up to 4 psi, is an:

- A. MC 306/DOT 406.
- C. MC 312/DOT 412.

- B. MC 307/DOT 407.
- D. MC 331/DOT 407.

56. A non-insulated, single-shell vessel illustrated below, which carries gases that have been liquefied, is a:



- A. MC 306/DOT 406.
- C. MC 312/DOT 412.

- B. MC 307/DOT 407.
- D. MC 331.

57. Viewed from the rear, a liquid carrier has an elliptical shape. This shape, pictured below, indicates what type of carrier?



- A. MC 307/DOT 407
- C. MC 306/DOT 406

- B. MC 312/DOT 412
- D. MC 331

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58. A cryogenic liquid tank will have:
- A. a single uninsulated shell.
 - B. an enclosed dome.
 - C. a double shell with insulation.
 - D. fittings and valves visible on top of the tank car.
59. A rail car with exposed fittings is a _____ car.
- A. non-pressure or low-pressure tank
 - B. pressure or high-pressure tank
 - C. hopper
 - D. cryogenic liquid tank
60. A tank carrier designed to haul various chemicals whose pressures are less than 35 psi would be an:
- A. MC 306/DOT 406.
 - B. MC 307/DOT 407.
 - C. MC 312/DOT 412.
 - D. MC 331.
61. On pesticide labels for materials originating in Canada, the product will have a _____ which is like the Environmental Protection Agency registration number in the United States.
- A. pest control product number
 - B. poison control number
 - C. Department of Transportation (DOT) hazard class number
 - D. United Nations (UN) identification number
62. Type _____ packaging contains low-level commercial radioactive shipments in cardboard boxes, wooden crates, and metal drums.
- A. A
 - B. B
 - C. C
 - D. D
63. A specialized intermodal tank container which transports gases in high-pressure cylinders is:
- A. a tube module/trailer.
 - B. a cryogenic intermodal tank.
 - C. an IM 101.
 - D. an IM 102.
64. A specialized intermodal tank container which carries refrigerated liquid gases, oxygen, or helium would be an example of:
- A. tube modules.
 - B. IM 101.
 - C. IM 102.
 - D. cryogenic intermodal tanks/IM type 7.

65. Cryogenic liquid intermodal, IMO type 7, containers are:

- A. non-pressure tanks that are highly insulated.
- B. atmospheric pressure non-insulated tanks.
- C. very low-pressure highly insulated tanks.
- D. diverse in pressure ratings as high as 600 psi.

66. **Directions:** Read the following statements and choose the correct answer from choices A-D below.

Statement 1: There are many types of intermodal containers, or freight containers that can be used interchangeably on multiple modes of transportation (highway, rail, ship).

Statement 2: Cryogenic liquids cannot be shipped in intermodal containers because they are too unstable for this type of shipment.

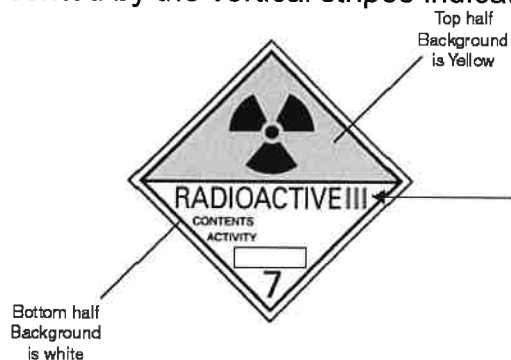
Statement 3: Radioactive material containers are shipped in either Type A or Type B containers.

- A. All three statements are true.
- B. Statement 1 is false; statements 2 and 3 are true.
- C. Statements 1 and 3 are true; statement 2 is false.
- D. Statements 1 and 3 are false; statement 2 is true.

67. The products that IM 102 intermodal portable tanks typically carry are:

- A. nonregulated materials.
- B. flammable gases.
- C. hydrogen.
- D. radioactive materials.

68. The item that is represented by the vertical stripes indicates the:



- A. radioactive levels.
- B. Hazard Class.
- C. maximum radiation levels.
- D. number of radioactive atoms.

69. What type of container is used to ship materials of radioactivity by air?
- A. Industrial B. Type A C. Type C D. Extruded
70. An intermodal container that can hold high pressure gases 3000 psi or higher is a:
- A. cryogenic intermodal tank. B. tube module intermodal container.
C. pressure intermodal tank. D. non-pressure intermodal tank.
71. Emergency centers such as the _____ are principal agencies providing immediate technical assistance to an emergency responder.
- A. Occupational Safety and Health Administration
B. National Fire Protection Association
C. National Center for Disease Control
D. CHEMTREC®
72. Beta particles are:
- A. having weight and mass.
B. ionizing radiation like X-rays.
C. deadly radiation.
D. large particles that easily pass through protective gear.
73. The CHEMTREC® organization is available _____ hours per day to provide information about:
- A. 24, certain chemicals.
B. 24, many chemicals.
C. during normal business, only liquid chemicals.
D. during normal business, selected chemicals.
74. The Chemical Transportation Emergency Center and the Canadian Transport Emergency Centre can usually provide:
- A. authorization for cleanup. B. previous incidents and exposures.
C. technical information. D. advice on remediation contractors.
75. In an emergency at a facility with bulk chemical storage, where the Safety Data Sheet is not available on site, the firefighter may obtain information from:
- A. an Environmental Protection Association Alert.
B. the chemical abstract services.
C. the Department of Transportation.
D. the Chemical Transportation Emergency Center.

Did you score 80% or higher on Exam I-1 Feedback? Circle Yes or No in ink.

We will return to your Yes or No answer to this question later in SAEP®.

Now that you have finished the Feedback Step for Examination I-1, it is time to repeat the process by taking another comprehensive examination on the NFPA Standard.

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Hazardous Material Awareness

Exam Prep I-1

Feedback and Answers

Sixth Edition - 2019

Please read instructions on next page!

Directions: Follow these steps carefully for completing the Feedback Part of Systematic Approach to Exam Preparation (SAEP®):

1. After entering your scores, look up the answers for the exam items you missed as well as those you guessed, even if you guessed correctly. If you are guessing it means the answer isn't perfectly clear. In this process we are committed to making you as knowledgeable as possible.
2. Enter the number of missed and guessed exam items in the blank on the next page following the end of the examination.
3. Highlight the answer in the reference materials. Once you have highlighted the answer, read the paragraph preceding and the paragraph following the one in which the correct answer is located. This is **essential** to learning the material in **context** and by **association**. These learning techniques (context/association) are the very backbone of the SAEP® method.
4. Once you have completed the Feedback part you may proceed to the next examination.

1. 4.2.1 RECOGNIZE & ID 2

*Reference: NFPA 1072, 4.2.1 (A- 11) (B- 7), 4.3.1 (A- 1-3) (B- 1-5), 5.3.1 (A- 6) (B- 1).
IFSTA, IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1194, Figure 24.217.
Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 37. Fig. 2-28
IFSTA, Hazardous Materials for First Responders, 5th Edition, page 119.*

Answer: D

2. 4.2.1 RECOGNIZE & ID 7

*Reference: NFPA 1072, 4.2.1 (A- 4) (B- 5).
IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1180, Figure 24.204.
Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 28. Table 2-1
IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 87,*

Answer: C

3. 4.2.1 RECOGNIZE & ID 8

*Reference: NFPA 1072, 4.2.1 (A- 4) (B- 5).
IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1151.
Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 34-35.
IFSTA, Hazardous Materials for First Responders, 5th Edition, page 73,77*

Answer: C

4. 4.2.1 RECOGNIZE & ID 13

*Reference: NFPA 1072, 4.2.1 (A- 1) (B- 2).
IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1203.
IFSTA, Hazardous Materials for First Responders, 5th Edition, page 103.
Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 12.*

Answer: B

5. 4.2.1 RECOGNIZE & ID 14

Reference: NFPA 1072, 4.2.1 (A- 7,8,12) (B- 1,5), 5.3.1 (A- 8).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops., page 1200.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 99.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 29.

Answer: A

6. 4.2.1 RECOGNIZE & ID 15

Reference: NFPA 1072, 4.2.1 (A- 6,7,10) (B- 1,5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1154, Figure 24.173.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 75,

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 34-35. Fig. 2-25.

Answer: A

7. 4.2.1 RECOGNIZE & ID 17

Reference: NFPA 1072, 4.2.1 (A- 4) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops. page 1179, 1180, Figure 24.204.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 87.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 27. Fig. 2-15.

Answer: B

8. 4.2.1 RECOGNIZE & ID 18

Reference: NFPA 1072, 4.2.1 (A- 4) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages, 1179, 1180, Figure 24.204.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 87.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 27. Fig. 2-15.

Answer: A

9. 4.2.1 RECOGNIZE & ID 19

Reference: NFPA 1072, 4.2.1 (A- 4) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1179, 1189, Figure 24.204.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 87.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 27. Fig. 2-15

Answer: C

10. 4.2.1 RECOGNIZE & ID 20

Reference: NFPA 1072, 4.2.1 (A- 4) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1179, 1180, 24.204.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 87.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 27. Fig. 2-15.

Answer: D

11. 4.2.1 RECOGNIZE & ID 22

Reference: NFPA 1072, 4.2.1 (A- 4) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1179.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 86.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 26.

Answer: A

12. 4.2.1 RECOGNIZE & ID 24

Reference: NFPA 1072, 4.2.1 (A- 9) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1153, 1151, 1157.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 83-

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 37,35. Fig. 2-25.

Answer: B

13. 4.2.1 RECOGNIZE & ID 25

Reference: NFPA 1072, 4.2.1 (A- 9) (B- 5), 5.2.1 (A- 1) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1151, 1159.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 83.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 37,35. Fig. 2-25.

Answer: D

14. 4.2.1 RECOGNIZE & ID 27

Reference: NFPA 1072, 4.2.1 (A- 9) (B- 5), 5.2.1 (A- 1) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1151, 1159.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 83.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 37,35. Fig. 2-25.

Answer: C

15. 4.2.1 RECOGNIZE & ID 28

Reference: NFPA 1072, 4.2.1 (A- 11) (B- 3), 4.3.1 (A- 1) (B- 2)

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1200.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 83.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 25.

Answer: B

16. 4.2.1 RECOGNIZE & ID 29

Reference: NFPA 1072, 4.2.1 (A- 11) (B- 1), 4.3.1 (A- 1) (B- 2).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1201.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 88.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 25.

Answer: C

17. 4.2.1 RECOGNIZE & ID 42

Reference: NFPA 1072, 4.2.1 (A-1,2) (B- 1,5), 4.3.1 (A- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1201.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 99.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 30.

Answer: A

18. 4.2.1 RECOGNIZE & ID 45

Reference: NFPA 1072, 4.2.1 (A- 2) (B- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1188.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 97.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 49.

Answer: C

19. 4.2.1 RECOGNIZE & ID 53

Reference: NFPA 1072, 4.2.1 (A- 4) (B- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1179.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 87.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 26-27.

Answer: D

20. 4.2.1 RECOGNIZE & ID 55

Reference: NFPA 1072, 4.2.1 (A- 2) (B- 7).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1151, 1159.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 73,

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 38,35. Fig. 3-29 Fig. 2-25

Answer: C

21. 4.2.1 RECOGNIZE & ID 60

Reference: NFPA 1072, 4.2.1 (A- 9) (B- 7).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1197.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 125-126. Fig. 3.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 36,38. Fig. 2-29

Answer: B

22. 4.2.1 RECOGNIZE & ID 70

Reference: NFPA 1072, 4.2.1 (A- 2,6) (B- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1151, 1159.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 73, 76, 78,84. Fig. 2.37 Fig. 2.40 Table 2.5

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 37,35. Fig. 2-25.

Answer: C

23. 4.2.1 RECOGNIZE & ID 72

Reference: NFPA 1072, 4.2.1 (A- 9) (B- 7), 4.3.1 (A- 1) (B- 3).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1194, 1053.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 120.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 36,38. Fig. 2-29

Answer: A

24. 4.2.1 RECOGNIZE & ID 73

Reference: NFPA 1072, 4.2.1 (A- 9) (B- 7), 4.3.1 (A- 1) (B- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1193.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 118

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 35,36.

Answer: C

25. 4.2.1 RECOGNIZE & ID 82

Reference: NFPA 1072, 4.2.1 (A- 10) (B- 6).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1144.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 274.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 98.

Answer: D

26. 4.2.1 RECOGNIZE & ID 87

Reference: NFPA 1072, 4.2.1 (A- 4,6,10) (B- 1,5), 5.2.1 (A- 1,3) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1155, Figure 24.174, page 1175, table 24.17.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 75, Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 35. Fig. 2-25

Answer: B

27. 4.2.1 RECOGNIZE & ID 93

Reference: NFPA 1072, 4.2.1 (A- 3) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1155, Figure 24.174., page 1178, Table 24.17.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 75 197. Table 4.14, Fig. 4.78.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 35. Fig. 2-25.

Answer: D

28. 4.2.1 RECOGNIZE & ID 94

Reference: NFPA 1072, 4.2.1 (A- 3) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1155, Figure 24.174., page 1176, Table 24.17. IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 75, 184-186.

Tables 4.6, 4.7

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 35. Fig. 2-25.

Answer: C

29. 4.2.1 RECOGNIZE & ID 95

Reference: NFPA 1072, 4.2.1 (A- 1) (B- 1,7), 5.2.1 (A- 1) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1151, 1157.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 82. Table 2.5

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages, 37 35. Fig. 2-25..

Answer: C

30. 4.2.1 RECOGNIZE & ID 96

Reference: NFPA 1072, 4.2.1 (A- 2) (B- 1,7), 5.2.1 (A- 1) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1151, 1159.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 82,75,76,78. Table 2.5

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 37, 35. Fig. 2-25.

Answer: A

31. 4.2.1 RECOGNIZE & ID 97

Reference: NFPA 1072, 4.2.1 (A- 2) (B- 1,7), 5.2.1 (A- 1) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1151, 1159.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 82,75,76,78. Table 2.5

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 37, 35. Fig. 2-25.

Answer: B

32. 4.2.1 RECOGNIZE & ID 98

Reference: NFPA 1072, 4.2.1 (A- 2) (B- 1,7), 5.2.1 (A- 1) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1151, 1177, Table 24.17.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 84.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 35.

Answer: C

33. 4.2.1 RECOGNIZE & ID 99

Reference: NFPA 1072, 4.2.1 (A- 2), 5.2.1 (A- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1179.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 87.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 25.

Answer: A

34. 4.2.1 RECOGNIZE & ID 100

Reference: NFPA 1072, 4.2.1 (A- 4) (B- 1,5), 5.2.1 (A- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1179.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 87.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 26-27.

Answer: A

35. 4.2.1 RECOGNIZE & ID 102

Reference: NFPA 1072, 4.2.1 (A- 9) (B- 1,5), 5.2.1 (A- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1151, 1168.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 56.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 37.

Answer: B

36. 4.2.1 RECOGNIZE & ID 103

Reference: NFPA 1072, 4.2.1 (A- 2) (B- 1), 5.2.1 (A- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1179, 1180 Figure 24.204.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 87.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 26-27.

Answer: B

37. 4.2.1 RECOGNIZE & ID 104

Reference: NFPA 1072, 4.2.1 (A-7) (B- 1), 5.2.1 (A- 5) (B- 5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1200.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 99.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 30.

Answer: A

38. 4.2.1 RECOGNIZE & ID 105

Reference: NFPA 1072, 4.2.1 (A- 7) (B- 1), 5.2.1 (A- 5) (B- 5), 5.3.1 (A- 8).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1200.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 99.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 30.

Answer: C

39. 4.2.1 RECOGNIZE & ID 108

Reference: NFPA 1072, 4.2.1 (A- 6) (B- 1), 5.2.1 (A- 1) (B- 2, 5.3.1 (A- 8)).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1200.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 99.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 29.

Answer: D

40. 4.2.1 RECOGNIZE & ID 109

Reference: NFPA 1072, 4.2.1 (A- 2) (B- 1), 5.2.1 (A- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1188.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 96.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 49.

Answer: B

41. 4.3.1 INIT PROT ACT 8

Reference: NFPA 1072, 4.3.1 (A- 1) (B- 1,2)

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1193.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 118-

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 35-36.

Answer: D

42. 4.3.1 INIT PROT ACT 9

Reference: NFPA 1072, 4.3.1 (A- 3) (B- 4)

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1194,page 1221.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 128.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 110.

Answer: A

43. 4.3.1 INIT PROT ACT 13

Reference: NFPA 1072, 4.3.1 (A- 2) (B- 1,4-6).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1194.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 138.

Answer: A

44. 5.2.1 ID POT HAZARD 4

Reference: NFPA 1072, 5.2.1 (A- 2) (B- 1)..

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1091.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 114.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 20.

Answer: C

45. 5.2.1 ID POT HAZARD 8

Reference: NFPA 1072, 5.2.1 (A- 1,3,4,8(g,j), 10(c)) (B- 1,2,5), 4.2.1 (A- 10) (B- 5)

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1155, Figure 24.174, page 1178, Table 24.17.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 194-196. Fig. 4.75, 4.76.

Tables 4.12, 4.13.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 35. Fig. 2-25.

Answer: A

46. 5.2.1 ID POT HAZARD 9

Reference: NFPA 1072, 5.2.1 (A- 1,3,4,8(a,d,n)).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1155, Figure 24.174, page 1175, Table 24.17.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 185-186.

Table 4.7, Fig. 4.6.6, Fig. 4.6.5.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 35. Fig. 2-25.

Answer: D

47. 5.2.1 ID POT HAZARD 13

Reference: NFPA 1072, 5.2.1 (A- 1,8(d,e,f,l)).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1065.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 156,157. Fig. 4.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 54.

Answer: B

48. 5.2.1 ID POT HAZARD 21

Reference: NFPA 1072, 5.2.1 (A- 8(i,m),9,10(a,b),11) (B- 2-5,8).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1077.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 172.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 69.

Answer: B

49. 5.2.1 ID POT HAZARD 22

Reference: NFPA 1072, 5.2.1 (A- 4,9,11,12) (B- 3,4,8).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1258-1259.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 364-366.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 87.

Answer: A

50. 5.2.1 ID POT HAZARD 27

Reference: NFPA 1072, 5.2.1 (A- 1,2,4,8(a,b,c,h,i,m,n),9,10(a,d),11,12) (B- 1-5,8).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1289.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 628,

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 93.

Answer: C

51. 5.2.1 ID POT HAZARD 28

Reference: NFPA 1072, 5.2.1 (A- 10(b)) (B- 7,8).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1079, 1282.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 176. Fig 4.54

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 32, 93-94.

Answer: D

52. 5.2.1 ID POT HAZARD 33

Reference: NFPA 1072, 5.2.1 (A- 10(a,b)) (B- 8).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1187, Table 24.20.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 393.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 92. Table 4-2

Answer: B

53. 5.2.1 ID POT HAZARD 42

Reference: NFPA 1072, 5.2.1 (A- 2) (B- 1), 4.2.1 (A- 3).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1135.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 248-249. Fig. 5.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 78. Fig. 4-16

Answer: B

54. 5.2.1 ID POT HAZARD 44

Reference: NFPA 1072, 5.2.1 (A- 2) (B- 1), 4.2.1 (A- 3).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1113, Figures 24.134 and 24.135.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 246.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 78. Fig. 4-15

Answer: B

55. 5.2.1 ID POT HAZARD 48

Reference: NFPA 1072, 5.2.1 (A- 2) (B- 1). 4.2.1 (A- 3).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1134.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 246-247.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 78. Fig. 4-13

Answer: A

56. 5.2.1 ID POT HAZARD 49

Reference: NFPA 1072, 5.2.1 (A- 2) (B- 1). 4.2.1 (A- 3)

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1113-1114.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 243.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 79. Fig. 4-17

Answer: D

57. 5.2.1 ID POT HAZARD 54

Reference: NFPA 1072, 5.2.1 (A- 2) (B- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1134.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 247. Fig. 5.46.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 78. Fig. 4-13

Answer: C

58. 5.2.1 ID POT HAZARD 58

Reference: NFPA 1072, 5.2.1, (A- 2) (B- 1)

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1125.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 231.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 23.

Answer: C

59. 5.2.1 ID POT HAZARD 61

Reference: NFPA 1072, 5.2.1 (A- 2,3) (B- 1,5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1136, Figure 24.143.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 256.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 81. Fig. 4-22

Answer: A

60. 5.2.1 ID POT HAZARD 72

Reference: NFPA 1072, 5.2.1 (A- 2, 8(m)) (B- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1132.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 246.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 78. Fig. 4-15

Answer: B

61. 5.2.1 ID POT HAZARD 74

Reference: NFPA 1072, 5.2.1 (A- 2,6(a),7,8(m),12) (B- 1,8).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1182.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 93.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 49.

Answer: A

62. 5.2.1 ID POT HAZARD 77

Reference: NFPA 1072, 5.2.1 (A- 2,8(i)) (B- 1)

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1144.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 274.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 97. Fig. 4-43

Answer: A

63. 5.2.1 ID POT HAZARD 80

Reference: NFPA 1072, 5.2.1 (A- 2) (B- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1115.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 250, 266. Table 5.7

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 79-80. Fig. 4-19

Answer: A

64. 5.2.1 ID POT HAZARD 81

Reference: NFPA 1072, 5.2.1 (A- 2,8(i)) (B-1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1126.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 269-270. Fig. 5.88

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 75-76. Fig. 4-8

Answer: D

65. 5.2.1 ID POT HAZARD 82

Reference: NFPA 1072, 5.2.1 (A- 2,8(m)) (B-1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1126, 1127,

Figure 24.128.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 235.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 75. Fig. 4-8

Answer: D

66. 5.2.1 ID POT HAZARD 83

Reference: NFPA 1072, 5.2.1 (A- 2) (B- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1120-1126, 1144.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 274,264. Fig 5.81

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 73.

Answer: C

67. 5.2.1 ID POT HAZARD 88

Reference: NFPA 1072, 5.2.1 (A- 2,3) (B- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1107, 1139, Table 24.8.

IFSTA, Hazardous Materials for First Responders, 5th Edition, pages 266-267. Table 5.7 Table 5.8

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 74,76. Fig. 4-5

Answer: A

68. 5.2.1 ID POT HAZARD 89

Reference: NFPA 1072, 5.2.1 (A- 3,8(j)) (B- 1,5).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, Ch. 24, page 1171, Figure 24.197.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 194, 195. Fig. 4.76.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 95,96. Fig. 4-42

Answer: A

69. 5.2.1 ID POT HAZARD 93

Reference: NFPA 1072, 5.2.1 (A- 2,3,8(j)) (B- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, pages 1144.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 96.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 97. Fig. 4-45

Answer: C

70. 5.2.1 ID POT HAZARD 98

Reference: NFPA 1072, 5.2.1 (A- 2) (B- 1).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1115.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 266. Table 5.7

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, pages 79-80. Fig. 4-19

Answer: B

71. 5.2.1 ID POT HAZARD 104

Reference: NFPA 1072, 5.2.1 (A- 6(a)) (B- 5), 5.3.1 (A- 1,7,10), 4.3.1 (A- 1), 4.4.1 (A- 2) (B- 2).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, Ch. 24, page 1222.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 204.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 82.

Answer: D

72. 5.2.1 ID POT HAZARD 110

Reference: NFPA 1072, 5.2.1 (A- 8(j)).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1071.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 534. Table 11.1

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 61.

Answer: B

73. 5.2.1 ID POT HAZARD 111

Reference: NFPA 1072, 5.2.1 (A- 6(a)) (B- 5), 5.3.1 (A-1,7,10)..

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1222.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 204.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 82.

Answer: B

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74. 5.2.1 ID POT HAZARD 118

Reference: NFPA 1072, 5.2.1 (A- 4,6(a),) (B-5), 5.3.1 (A- 1,10).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1222.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 205.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 82.

Answer: C

75. 5.2.1 ID POT HAZARD 119

Reference: NFPA 1072, 5.2.1 (A- 4,5,6(a)) (B-5), 5.3.1 (A- 1,7,10).

IFSTA, Essentials, 7th Edition, Hazmat Awareness and Ops, page 1222.

IFSTA, Hazardous Materials for First Responders, 5th Edition, page 204.

Jones and Bartlett, Hazardous Materials Awareness and Operations, 3rd Edition, page 82.

Answer: D