Hazardous Materials - Recognizing and Identifying the Hazards

1. What are shipping papers for railroad transportation called? p. 914

A.) Bills of landing
*B.) Waybills
C.) Freight bills
D.) Consists

2. How many pressure relief valves will you usually find on a cryogenic container? p. 906

A.) None
B.) Three
C.) One
*D.) Two

3. What is the biggest difference between a chemical incident and a biological incident? p. 916

A.) Method of route of exposure
*B.) Speed of onset of health effects from the involved agents
C.) Level of response needed
D.) Amount of material required to achieve the desired effect

4. Which is NOT a correct statement about using CHEMTREC? p. 915

A.) Spell out all chemical names
B.) Give the location of the actual incident
C.) Confirm all spellings
*D.) Never use a third party to communicate

5. What are bulk storage containers defined by? p. 903

A.) Stackability
*B.) Internal capacity
C.) Exterior dimensions
D.) Material type

6. What value is given to a material that is the least hazardous for that type of hazard? p. 913

A.) 1
B.) 2
*C.) 0
D.) 3

7. What shape are pipeline vent tubes? p. 910

A.) Inverted V
B.) Inverted F
C.) Inverted Y
*D.) Inverted J

8. What are bags commonly used to store? p. 905

A.) Vapors
B.) Compressed gases
C.) Liquids
*D.) Solids

9. What is a common way that MSDS forms are stored in facilities with small chemical inventories? p. 914

A.) Library
B.) File cabinet
C.) Computer system
*D.) Three-ring binder

10. Approximately what gas pressure reading is seen on a typical oxygen cylinder used for medical purposes? p. 906

A.) 3000 psi (20,690 kPa)
*B.) 2000 psi (13,790 kPa)
C.) 5000 psi (34,474 kPa)
D.) 4000 psi (27,586 kPa)

11. How many sides of the individual box and smaller packages must a label be attached? p. 911

A.) Three
*B.) Four
C.) Two
D.) One

12. Which type of intermodal tank primarily carries flammable liquids and corrosives? p. 904

A.) IM-101
B.) Spec 51
C.) IMO Type 5
*D.) IM-102

13. What pressures are usually found in a propane cylinder? p. 906

A.) 300 to 400 psi (2,068 to 2,759 kPa)
B.) 400 to 500 psi (2,759 to 3,448 kPa)
C.) 100 to 200 psi (689 to 1,379 kPa)
*D.) 200 to 300 psi (1,379 to 2,068 kPa)

14. Which type of carboys will often have a protective wood or fiberglass box? p. 905

A.) Cardboard
*B.) Glass
C.) Steel
D.) Plastic

15. What dictates the construction of the storage drum in most cases? p. 904

A.) Number of drums needed
B.) Method of transport
*C.) Nature of the material
D.) Amount of material

16. What is the maximum temperature found in the DOT 113 railcar? p. 910

A.) 1400°F (760°C)
*B.) 1300°F (700°C)
C.) 1600°F (870°C)
D.) 1500°F (816°C)

17. Which are the most common clandestine labs you will encounter? p. 917

*A.) Drug labs
B.) Information labs
C.) Explosives labs
D.) Bioterrorism labs

18. Which section of the ERG should be used to determine the emergency action guide number when the UN number is known? p. 912

A.) Green
*B.) Yellow
C.) Blue
D.) Orange

19. What division in the military hazardous materials/WMD marking system identifies materials that are a moderate fire hazard? p. 914

A.) Division 3
B.) Division 2
*C.) Division 4
D.) Division 5

20. Which packing group designation would alert you to a high danger? p. 914

*A.) Group I
B.) Group II
C.) Group III
D.) Group IV

21. Which type of terrorist incidents are you the least likely to see? p. 916

A.) Biological agent
*B.) Radiological agent
C.) Chemical agent
D.) Illicit laboratories

22. Which type of railcars will have visible valves and piping without a dome cover? p. 908

A.) DOT 113 cryogenic
B.) DOT 105 pressurized
*C.) DOT 111 nonpressurized
D.) DOT 112 pressurized

23. Which material is used for the packaging for low-level radioactive sources? p. 915

*A.) Polyethylene
B.) Metal
C.) Glass
D.) Plastic

24. What is the most common method of transporting chemicals and other hazardous materials? p. 906

A.) Over water
*B.) Over land via highway transport
C.) In an airplane
D.) Over land via personal vehicles

25. Where are the tank control valves of the MC-338 cryogenic tanker? p. 907

A.) Top of the tanker
B.) Front of the tanker
*C.) Rear of the tanker
D.) Bottom of the tanker

26. Which is often identifiable by several reinforcing rings around the tank? p. 907

*A.) MC-312/DOT 412 corrosives tanker
B.) MC-331 pressure cargo tanker
C.) MC-307/DOT 407 Chemical hauler
D.) MC-306/DOT 406 flammable liquid tanker

27. What should be the minimum number of sources of information that should be used to investigate the chemicals involved at a facility? p. 914

A.) One
B.) Four
C.) Two
*D.) Three

28. What color diamond in the NFPA 704 hazard identification system indicates reactivity? p. 912

A.) Blue
B.) Red
*C.) Yellow
D.) White

29. What shape are dry bulk cargo tanks generally? p. 907

*A.) V
B.) T
C.) U
D.) O

30. What percent of the total capacity of a pressurized horizontal tank can contain vapor? p. 904

*A.) 10 to 15 percent
B.) 15 to 20 percent
C.) 20 to 25 percent
D.) 5 to 10 percent

31. Which DOT class contains flammable combustible liquids? p. 911

A.) DOT Class 4
B.) DOT Class 2
C.) DOT Class 1
*D.) DOT Class 3

32. On how many sides of highway transport vehicles must placards be placed? p. 911

A.) Three
B.) One
*C.) Four
D.) Two

33. Which type of packaging is authorized for international shipments of radioactive material by air? p. 916

A.) Type B
*B.) Type C
C.) Type D
D.) Type A

34. In which type of incident location may booby trap systems be present? p. 917

A.) Biological attacks
*B.) Illicit laboratories
C.) Radiological agents
D.) Chemical agent releases

35. Which diamond will contain special symbols and handling instructions? p. 912

A.) Green
*B.) White
C.) Yellow
D.) Red

36. Usually in what form are materials found in cardboard drum? p. 903

A.) Liquid
B.) Vapor
*C.) Solid
D.) Compressed gas

37. What material is the MC-331 pressure cargo tanker commonly constructed from? p. 907

*A.) Steel
B.) Cast iron
C.) Metal alloy
D.) Aluminum

38. Which is an indicator of the presence of hazardous materials? p. 902

A.) Initial report
B.) Time of day
C.) Number of victims
*D.) Occupancy type

39. Which is NOT a material commonly used to construct a large-volume horizontal tank? p. 903

*A.) Concrete
B.) Aluminum
C.) Steel
D.) Plastic

40. Who operates the National Response Center? p. 915

A.) FEMA
B.) Red Cross
*C.) U.S. Coast Guard
D.) Salvation Army