

Chapter 24 Test

Name: _____ Date: _____

Directions: Write the correct letter on the blank before each question.

- _____ 1. In Step 2 of the APIE process, responders: (1047) *[1072, 5.3.1]*
- A. gather information and attempt to understand the current situation.
 - B. perform tasks determined in the planning stage and direct actions to mitigate the incident.
 - C. use the information gathered to determine what actions need to be taken to mitigate the incident.
 - D. monitor progress to see whether the response plan is working, and continue throughout the incident.
- _____ 2. In Step 4 of the APIE process, responders: (1047) *[1072, 5.3.1]*
- A. gather information and attempt to understand the current situation.
 - B. perform tasks determined in the planning stage and direct actions to mitigate the incident.
 - C. use the information gathered to determine what actions need to be taken to mitigate the incident.
 - D. monitor progress to see whether the response plan is working, and continue throughout the incident.
- _____ 3. Hazardous materials or dangerous goods are: (1048) *[1072, 4.2.1]*
- A. not a serious problem.
 - B. always easy to identify.
 - C. rarely encountered by firefighters.
 - D. substances that possess harmful characteristics.
- _____ 4. Hazmat incidents often: (1049) *[1072, 4.2.1]*
- A. do not pose any threat.
 - B. involve international news coverage.
 - C. are less complex than other types of emergency incidents.
 - D. are more complex than other types of emergency incidents.

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- _____ 5. Acute health effects are: (1049) *[1072, 4.2.1, 5.3.1, 5.5.1]*
- A. lethal but take a long time to show up.
 - B. long-term effects that may take years to appear.
 - C. short-term effects that may take years to appear.
 - D. short-term effects that appear within hours or days.
- _____ 6. A chronic exposure to a hazardous material is: (1049) *[1072, 4.2.1, 5.3.1, 5.5.1]*
- A. lethal.
 - B. long-term or reoccurring.
 - C. unlikely to cause health problems.
 - D. a single exposure or several repeated exposures within a short time period.
- _____ 7. Breathing hazardous materials in through the nose or mouth is defined as: (1050) *[1072, 4.2.1, 5.3.1, 5.5.1]*
- A. injection.
 - B. ingestion.
 - C. inhalation.
 - D. absorption.
- _____ 8. The process of taking in hazardous materials through the skin or eyes is defined as: (1050) *[1072, 4.2.1, 5.3.1, 5.5.1]*
- A. injection.
 - B. ingestion.
 - B. inhalation.
 - D. absorption.
- _____ 9. A chemical that burns or destroys living tissue is an example of: (1051) *[1072, 4.2.1, 5.3.1, 5.5.1]*
- A. toxicity.
 - B. corrosivity.
 - C. energy release.
 - D. chronic exposure.

- _____ 10. Chemicals or biological substances that cause sickness, illness, or injury by doing damage on the molecular scale are an example of: (1051) [1072, 4.2.1, 5.3.1, 5.5.1]
- A. toxicity.
 - B. corrosivity.
 - C. energy release.
 - D. chronic exposure.
- _____ 11. Fires and explosions are examples of: (1052) [1072, 4.2.1, 5.3.1, 5.5.1]
- A. toxicity.
 - B. corrosivity.
 - C. energy release.
 - D. chronic exposure.
- _____ 12. Which statement about gases is most accurate? (1055) [1072, 5.2.1]
- A. Gases do not present a breathing/inhalation hazard.
 - B. It is quite easy to contain gases for mitigation purposes.
 - C. It is easiest and safest to detect gases by sense of smell.
 - D. Gases have an undefined shape and keep expanding if uncontained.
- _____ 13. Which statement BEST describes compressed gas? (1056) [1072, 5.2.1]
- A. Gas that has expanded upon release and escaped mitigation
 - B. Confined gas that at normal temperatures exists in both liquid and gaseous states
 - C. Any gas that is kept at pressures and/or temperatures higher than ambient conditions
 - D. Gas that, at normal temperature, exists solely as a gas when pressurized in a container
- _____ 14. The conversion of a liquid to vapor: (1056) [1072, 5.2.1]
- A. makes it easier to detect.
 - B. makes it easier to contain.
 - C. increases the material's mobility.
 - D. decreases the material's mobility.

- _____ 15. Which statement about solids is most accurate? (1058) [1072, 5.2.1]
- A. The process of sublimation is rapid and violent.
 - B. The particle size of solids may influence their behavior.
 - C. Solids tend to be very mobile unless acted upon by exterior forces.
 - D. Unlike liquids and vaporous liquids, solids do not have inhalation hazards.
- _____ 16. Sublimation occurs when a material transitions directly from a: (1058) [1072, 5.2.1]
- A. solid to a gas.
 - B. gas to a solid.
 - C. gas to a liquid.
 - D. solid to a liquid.
- _____ 17. What is the pressure exerted by a saturated vapor above its own liquid in a closed container? (1059) [1072, 5.2.1]
- A. Vapor density
 - B. Specific gravity
 - C. Vapor pressure
 - D. Solubility/miscibility
- _____ 18. Liquid changes to a gas at the _____ point. (1059) [1072, 5.2.1]
- A. flash
 - B. boiling
 - C. freezing
 - D. sublimation
- _____ 19. A boiling liquid expanding vapor explosion (BLEVE) is caused by: (1060) [1072, 5.2.1]
- A. sublimation of a boiling liquid.
 - B. application of a pressure stream.
 - C. a heated liquid or gas expanding.
 - D. inadequate internal vessel pressure.

- _____ 20. Gases with a vapor density of _____ will rise quickly and spread to a wide geographical area. (1060) [1072, 5.2.1]
- A. one
 - B. less than one
 - C. more than one
 - D. one through five
- _____ 21. Partially water-soluble chemicals will penetrate into the lower respiratory system and cause: (1061) [1072, 5.2.1]
- A. sudden gastrointestinal distress.
 - B. itching, scratching, and bloody skin lesions.
 - C. immediate symptoms such as coughing and throat irritations.
 - D. delayed symptoms that include pulmonary edema and coughing up blood.
- _____ 22. Most flammable liquids will float on water because they have: (1062) [1072, 5.2.1]
- A. high solubility.
 - B. high miscibility.
 - C. specific gravities less than one.
 - D. specific gravities greater than one.
- _____ 23. Viscosity determines the ease with which a product will flow and is greatly affected by: (1062) [1072, 5.2.1]
- A. sublimation.
 - B. temperature.
 - C. specific gravity.
 - D. appearance and odor.
- _____ 24. The concentration (in air) at which the "average person" can smell a particular compound is the: (1063) [1072, 5.2.1]
- A. solubility.
 - B. vapor density.
 - C. odor threshold.
 - D. vapor pressure.

- _____ 25. The temperature at which a liquid or volatile substance gives off enough vapors to support continuous burning is its: (1064) [1072, 4.2.1, 5.2.1]
- A. fire point.
 - B. flash point.
 - C. flammable range.
 - D. autoignition temperature.
- _____ 26. Flammable gases have: (1065) [1072, 4.2.1, 5.2.1]
- A. no flash point.
 - B. higher fire points.
 - C. very low flash points.
 - D. no autoignition temperature.
- _____ 27. The lowest concentration (or lowest percentage of the substance in the air) that will produce a flash of fire when an ignition source is present is the: (1065) [1072, 4.2.1, 5.2.1]
- A. LLL (lower liability limit).
 - B. LFL (lower flammable limit).
 - C. UEL (upper explosive limit).
 - D. UFL (upper flammable limit).
- _____ 28. A fuel that has moved beyond its upper flammable limit will: (1065) [1072, 4.2.1, 5.2.1]
- A. be too rich to burn.
 - B. flash if exposed to an ignition source.
 - C. immediately reach its autoignition temperature.
 - D. reach the correct ratio of fuel to oxygen to sustain combustion.
- _____ 29. What type of materials break down fatty skin tissues and can penetrate deeply into the body? (1066) [1072, 4.2.1, 5.2.1]
- A. Acids
 - B. Bases
 - C. Gases
 - D. Vapors

- _____ 30. The reducing agent in the fire tetrahedron acts as the _____ source for the reaction. (1067) [1072, 4.2.1, 5.2.1]
- A. fuel
 - B. oxygen
 - C. activation
 - D. autoignition
- _____ 31. What will increase the rate of polymerization and decrease the activation energy necessary for further polymerization? (1069) [1072, 4.2.1, 5.2.1]
- A. Fuel
 - B. Catalyst
 - C. Inhibitor
 - D. Contamination
- _____ 32. The most energetic and hazardous forms of radiation are: (1070) [1072, 4.2.1, 5.2.1]
- A. ionizing.
 - B. nonionizing.
 - C. visible light.
 - D. electromagnetic.
- _____ 33. Which type of radiation can be reduced or stopped by a layer of clothing, a thin sheet of metal, or a thick Plexiglass? (1071) [1072, 4.2.1, 5.2.1]
- A. Alpha
 - B. Beta
 - C. Gamma
 - D. Neutron
- _____ 34. Which type of ionizing radiation consists of high-energy photons? (1071) [1072, 4.2.1, 5.2.1]
- A. Alpha
 - B. Beta
 - C. Gamma
 - D. Neutron

- _____ 35. Which statement about radiation is accurate? (1073) [1072, 4.2.1, 5.2.1]
- A. Exposure to radiation will make a person radioactive.
 - B. Exposure to any amount of radiation will cause radiation sickness.
 - C. Radioactive contamination occurs when radiation passes through people or things.
 - D. Damage is often described in terms of dosage, indicating the amount of energy absorbed by matter.
- _____ 36. The damaging effects of ionizing radiation occur at the _____ level. (1073) [1072, 4.2.1, 5.2.1]
- A. organ
 - B. cellular
 - C. external
 - D. environmental
- _____ 37. Asphyxiants, irritants, convulsants, and carcinogens are types of: (1077) [1072, 4.2.1, 5.2.1]
- A. toxics.
 - B. radiation.
 - C. polymers.
 - D. corrosives.
- _____ 38. Which type of biological/etiological hazard spreads mostly through the bite of infected arthropods? (1078) [1072, 4.2.1, 5.2.1]
- A. Viruses
 - B. Bacteria
 - C. Rickettsias
 - D. Biological toxins
- _____ 39. Most diseases are spread via contact with: (1079) [1072, 4.2.1, 5.2.1]
- A. toxicity.
 - B. rickettsias.
 - C. body fluids.
 - D. radioactive substances.

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- _____ 40. What is the first step in the sequence proposed by the General Hazardous Materials Behavior Model (GEBMO)? (1080) [1072, 5.2.1]
- A. Stress
 - B. Release
 - C. Exposure
 - D. Dispersion
- _____ 41. A container making noises from expansion or contraction may indicate that the container has been exposed to _____ energy. (1080-1081) [1072, 4.2.1]
- A. thermal
 - B. chemical
 - C. mechanical
 - D. radiological
- _____ 42. Visible corrosion, or other degradation of a container, may indicate that a container is undergoing _____ energy. (1081) [1072, 4.2.1]
- A. thermal
 - B. chemical
 - C. mechanical
 - D. radiological
- _____ 43. Which type of container breach has been documented as causing a BLEVE? (1083) [1072, 4.2.1]
- A. Puncture
 - B. Split or tear
 - C. Runaway cracking
 - D. Broken attachments
- _____ 44. What type of container release is characterized by a fast release of pressurized hazardous material through properly operating safety devices? (1084) [1072, 4.2.1]
- A. Spill/leak
 - B. Detonation
 - C. Rapid relief
 - D. Violent rupture

- _____ 45. What type of dispersion pattern forms an irregularly shaped pattern of an airborne hazardous material where wind and/or topography influence the downrange course from the point of release? (1085) [1072, 4.2.1]
- A. Cloud
 - B. Plume
 - C. Particulate
 - D. Hemispheric
- _____ 46. Computer software programs such as CAMEO and ALOHA can be used to: (1090) [1072, 4.2.1]
- A. model dispersion patterns.
 - B. determine the origin of the container.
 - C. predict ruptures from mechanical stress.
 - D. make notifications downwind of a container release.
- _____ 47. A short-term contact or impingement is one that takes place over: (1090) [1072, 4.2.1]
- A. milliseconds or seconds.
 - B. minutes or hours.
 - C. days, weeks, or months.
 - D. years or generations.
- _____ 48. The three mechanisms of harm in a container hazardous materials incident are: (1091) [1072, 4.2.1]
- A. energy release, corrosivity, and toxicity.
 - B. radioactivity, pressure, and temperature.
 - C. dispersion patterns, rapid release, and detonation.
 - D. wind speed, barometric pressure, and time of day.
- _____ 49. Which method of detecting the presence of hazardous materials would pose the least risk for a first responder? (1091) [1072, 4.2.1]
- A. Referring to a preincident survey of the facility
 - B. Obtaining the shipping papers to identify a material
 - C. Using sense of smell or touch to identify the material
 - D. Entering the hazard area to use an air monitoring device

- _____ 50. Once hazardous materials are detected, first responders should: (1091) [1072, 4.2.1]
- A. deny exit to all bystanders.
 - B. get as close as possible to attempt material identification.
 - C. use a number of resources to identify the materials and potential hazards.
 - D. do nothing until the Incident Commander and a hazmat technician arrive on the scene.
- _____ 51. When hazardous materials are transported through your area,: (1092) [1072, 4.2.1]
- A. it will be confidential.
 - B. there will be 24-hour notice.
 - C. you may have little or no warning.
 - D. a police escort should be provided.
- _____ 52. What are some reasons that preincident surveys might not be accurate or useful in a hazmat incident? (1093) [1072, 4.2.1]
- A. Your AHJ may not regulate hazardous materials.
 - B. Preincident surveys are rarely useful in an emergency.
 - C. Definitions of hazardous materials are in constant flux.
 - D. Inventories, businesses, or other factors may change without notice.
- _____ 53. Locations such as ports, docks, railroad sidings, airplane hangars and truck terminals: (1094) [1072, 4.2.1]
- A. do not contain hazardous materials.
 - B. are likely locations for hazmat incidents.
 - C. are unlikely locations for hazmat incidents.
 - D. must announce when hazardous materials will be present.
- _____ 54. In which type of occupancy are first responders MOST likely to find supplies of anhydrous ammonia? (1096) [1072, 4.2.1]
- A. Farms
 - B. Residences
 - C. Office buildings
 - D. Health care facilities

- _____ 55. Which is considered to be a nonbulk container? (1097) [1072, 4.2.1, 5.2.1]
- A. Drum
 - B. Railcar
 - C. Cargo tank
 - D. Intermodal container
- _____ 56. Pressure containers: (1106) [1072, 4.2.1, 5.2.1]
- A. do not contain hazardous materials.
 - B. can be recognized by their two flat ends.
 - C. are constructed out of very flexible material.
 - D. have the potential to release a great deal of energy if involved in an incident.
- _____ 57. Liquid oxygen (LOX), nitrogen, helium, hydrogen, argon, and liquefied natural gas (LNG) are examples of: (1121) [1072, 4.2.1, 5.2.1]
- A. cryogenes.
 - B. corrosives.
 - C. non-hazardous materials.
 - D. weapons of mass destruction.
- _____ 58. Liquid containers tend to have: (1127) [1072, 4.2.1, 5.2.1]
- A. open tops.
 - B. pressure gauges.
 - C. V-shaped sloping sides.
 - D. flat (or less rounded) ends on tanks.
- _____ 59. Small airborne particles of solid substances such as grain, flour, sugar, coal, metal, or sawdust: (1140) [1072, 4.2.1, 5.2.1]
- A. can ignite or explode.
 - B. do not present a hazard.
 - C. may be stored in flexible bladders.
 - D. have their own hazardous materials placard.

- _____ 60. Materials with very little radioactivity that present no risk to the public should be shipped using what type of packaging? (1143) *[1072, 4.2.1, 5.2.1]*
- A. Type A
 - B. Type B
 - C. Type C
 - D. Excepted
- _____ 61. Which statement about pipelines is MOST accurate? (1146) *[1072, 4.2.1, 5.2.1]*
- A. Pipeline markers always mark exact locations.
 - B. Pipelines will run in a straight line between markers.
 - C. Markers are rarely the best way to identify that pipelines are present.
 - D. Pipeline companies must provide markers where pipelines cross under (or over) railroads or waterways.
- _____ 62. Statistics on marine vessel oil spills show that most oil spills: (1147) *[1072, 4.2.1, 5.2.1]*
- A. are relatively small.
 - B. are large major spills.
 - C. occur in the open ocean.
 - D. are due to animal collisions.
- _____ 63. Which marine vessels may serve as floating warehouses with hazardous goods, vehicles, or rail cars inside? (1148) *[1072, 4.2.1, 5.2.1]*
- A. Barges
 - B. Unit loading devices
 - C. Chemical carrier tankers
 - D. Towing or pushing vessels
- _____ 64. What is a unit loading device? (1149) *[1072, 4.2.1, 5.2.1]*
- A. A large railway cargo container
 - B. A type of marine vessel cargo carrier
 - C. A mechanized device to automatically load hazardous materials
 - D. Containers and aircraft pallets used to consolidate air cargo into a single transportable unit

- _____ 65. In North America, the U.N.'s *Transportation of Dangerous Goods – Model Regulations* is the basis of: (1151) [1072, 4.2.1]
- A. container shapes.
 - B. preincident plans and surveys.
 - C. first responder responsibilities and limitations.
 - D. the placarding, labeling, and marking system used to identify hazardous materials during transportation.
- _____ 66. In the U.N. system, hazard classes are divided into: (1151) [1072, 5.2.1]
- A. explosive and nonexplosive.
 - B. the types of containers they are transported in.
 - C. fifteen different classes, ranked from safest to most dangerous.
 - D. nine classes that include gases, infectious substances, and miscellaneous.
- _____ 67. In North America, rail tank cars, portable tanks, bulk packages, and certain nonbulk packages must display: (1152) [1072, 4.2.1]
- A. the U.N. four-digit identification number.
 - B. a weatherproof copy of their shipping papers.
 - C. painted stencils identifying the hazardous material.
 - D. their schedule for transportation of hazardous materials.
- _____ 68. What is a diamond shaped, color-coded sign placed on bulk transportation containers? (1153) [1072, 4.2.1]
- A. Label
 - B. Placard
 - C. Marking
 - D. Four-digit ID number
- _____ 69. What placard designation is used for mixed loads where the transport vehicle contains non-bulk packages with two or more package categories of hazardous materials? (1154-1156) [1072, 4.2.1]
- A. DANGEROUS
 - B. Miscellaneous
 - C. Multiple hazards
 - D. n.o.s (Not otherwise specified)

- _____ 70. What is a 3.9 inch (100 mm) square-on-point diamond that identifies hazardous materials within packaging? (1156) *[1072, 4.2.1]*
- A. Label
 - B. Placard
 - C. Marking
 - D. Four-digit ID number
- _____ 71. What is a descriptive name, identification number, weight, or specification that includes instructions, cautions, or U.N. marks, and is required on outer packaging of hazardous materials? (1156) *[1072, 4.2.1]*
- A. Label
 - B. Placard
 - C. Marking
 - D. Four-digit ID number
- _____ 72. Which class of hazards is characterized by thermal and mechanical hazards in the form of blast pressure waves, shrapnel and fragmentation, and incendiary thermal effects? (1159-1160) *[1072, 5.2.1]*
- A. Class 1
 - B. Class 2
 - C. Class 3
 - D. Class 4
- _____ 73. Most hazmat incidents, such as gasoline and diesel fuel spills, involve what hazard class? (1164) *[1072, 5.2.1]*
- A. Class 3
 - B. Class 4
 - C. Class 5
 - D. Class 6
- _____ 74. In addition to burning, all flammable and combustible liquids exhibit varying degrees of: (1164) *[1072, 4.2.1]*
- A. toxicity.
 - B. infectivity.
 - C. corrosivity.
 - D. fragmentation.

- _____ 75. Which statement about oxidizers is accurate? (1168) [1072, 4.2.1]
- A. They cannot burn without air being present.
 - B. They vigorously support combustion and may be explosive.
 - C. They may produce hydrogen gas when in contact with metal.
 - D. Although they support combustion, they are not an explosive hazard.
- _____ 76. Biohazards such as infectious substances are part of which hazardous class? (1169) [1072, 5.2.1]
- A. Class 3
 - B. Class 4
 - C. Class 5
 - D. Class 6
- _____ 77. Class 7 placards may come in white or yellow, and they bear the unique trefoil symbol for: (1176) [1072, 4.2.1]
- A. radiation.
 - B. explosives.
 - C. infectious diseases or biohazards.
 - D. oxidizing substances or organic peroxides.
- _____ 78. NFPA 704, *Standard System for the Identification of the Hazards of Materials for Emergency Response* gives widely recognized methods for indicating the presence of hazardous materials: (1179) [1072, 4.2.1]
- A. at residential occupancies.
 - B. for air and water transport.
 - C. for long-distance trucking operations.
 - D. at commercial, manufacturing, institutional, or other fixed-storage facilities.
- _____ 79. In the NFPA 704 System, what does a "4" in the yellow background indicate? (1179) [1072, 4.2.1]
- A. High flammability
 - B. Severe instability
 - C. Low health hazard
 - D. Radiological or nuclear hazards

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- _____ 80. Uniform classification of hazardous substances and uniform labeling standards are key elements of: (1180) *[1072, 4.2.1]*
- A. military markings.
 - B. the Global Health System (GHS).
 - C. the Globally Harmonized System (GHS).
 - D. the Department of Homeland Security (DHS).
- _____ 81. OSHA's Hazard Communication Standard (HCS) requires: (1181) *[1072, 4.2.1]*
- A. employers to identify hazards in the workplace.
 - B. employees to wear appropriate personal protective equipment.
 - C. transportation facilities to declare the presence of hazardous materials.
 - D. employers to remove all hazardous materials from the workplace.
- _____ 82. The Canadian Workplace Hazardous Materials Information System (WHMIS): (1182) *[1072, 4.2.1]*
- A. does not require hazardous products to be labeled and marked.
 - B. does not spell out requirements for the use of safety data sheets.
 - C. is most commonly met by providing two types of labels: supplier and workplace.
 - D. requires hazardous materials be labeled according to OSHA's Hazards Communication Standard (HCS).
- _____ 83. In Mexico, general caution signals are: (1182) *[1072, 4.2.1]*
- A. round.
 - B. triangular.
 - C. hexagonal.
 - D. rectangular.
- _____ 84. Chemical Abstract Service® (CAS®) registry numbers are unique numerical identifiers assigned to: (1182) *[1072, 4.2.1]*
- A. fixed facilities.
 - B. transportation hubs.
 - C. trucks, tankers, ships, barges, and airplanes that transport hazardous materials.
 - D. individual chemicals, chemical compounds, polymers, mixtures, alloys, and some biological sequences.

- _____ 85. In the U.S. and Canada, military markings are: (1182) [1072, 4.2.1]
- A. uniform.
 - B. not necessarily uniform.
 - C. identical to national systems.
 - D. the same as the Globally Harmonized System (GHS).
- _____ 86. Which is NOT included on pesticide labels in the U.S. and Canada? (1182-1188) [1072, 4.2.1]
- A. Signal word
 - B. Supplier identification
 - C. EPA/Canadian PCP number
 - D. U.N. four-digit identification number
- _____ 87. Under ANSI Z535.1, what color means Warning? (1189) [1072, 4.2.1]
- A. Red
 - B. Green
 - C. Yellow
 - D. Orange
- _____ 88. The *Emergency Response Guidebook (ERG)*: (1190) [1072, 4.2.1, 5.3.1]
- A. is designed primarily for use at fixed-facility locations.
 - B. will be more specific and accurate than information on shipping papers.
 - C. addresses all possible circumstances that may be associated with a hazardous response incident.
 - D. provides guidance to personnel who may be first to arrive at a scene of a transportation incident involving hazmat.
- _____ 89. Shipping papers must accompany: (1200) [1072, 4.2.1, 5.3.1]
- A. any bill of lading or waybill.
 - B. shipments of hazardous materials.
 - C. hazardous materials at fixed facilities.
 - D. permanent storage containers of hazardous waste.

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- _____ 90. Safety data sheets: (1200) *[1072, 4.2.1, 5.3.1]*
- A. are not formatted according to GHS specifications.
 - B. are confidential and should not be accessed by first responders.
 - C. should only be utilized by responders trained at the Technician level and above.
 - D. are often the best source of information about a particular material to which emergency responders have access.
- _____ 91. Chemical Inventory Lists (CILs) at facilities usually contain information about locations of materials within a facility, making them useful tools for: (1202) *[1072, 4.2.1, 5.3.1]*
- A. setting up decontamination corridors.
 - B. differentiating between different types of radiation.
 - C. identifying containers that have been damaged or are missing labels or markings.
 - D. determining where to most appropriately dispose of biohazardous waste materials.
- _____ 92. What are CAMEO and WISER? (1203-1204)
- A. Digital databases of shipping papers
 - B. Electronic technical resources designed to help in hazmat incidents
 - C. Forums for emergency responders and the public to work together
 - D. Digital reference sources for international standards on the transportation of chemical products