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SECURITY COURSES | FIRE SAFETY DIRECTOR | EAP DIRECTOR
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FIRE SAFETY DIRECTOR SCENARIOS

These 250 scenarios are designed to elicit discussions amongst fire protection management professionals in New York City as they are based on local laws, building designs, fire suppression systems, Fire Alarm Control Panel operations, fire safety program members and a general understanding of fire safety principles in the built environment. The discussions will generate differences of opinions as to who is correct. Readers are encouraged to seek the dominant answers by discussing the scenarios with colleagues in the fire protection management industry, particularly Fire Safety Directors, Fire Safety Coordinators, Fire Guards, Building Engineers, Security Officers and Emergency Action Plan Directors. Internet research is discouraged.

Some of the scenarios intentionally contain correct information, incorrect information, red herrings and questions that appear to have direct and inferred answers. The scenarios must be read carefully, completely and accurately, and must be understood in order to relate to the concept behind them. It is the author's intent to force the reader to engage in critical thinking to arrive at the dominant answers. There is only one dominant answer to each scenario. The author does not believe that one person will be able to answer all 250 scenarios correctly without seeking the assistance of colleagues. The concept of sharing these scenarios with as many people as possible is supported by the author. There are no limitations on the number of times the scenarios may be printed from the Radiant website—FREE of charge. Readers may also make copies of the scenarios for distribution purposes.

Radiant Training & Consulting, LLC is approved by the FDNY to provide the following courses:

- Consolidated Fire Safety Director Course F-58
- Fire Safety Coordinator Course F-24
- Emergency Action Plan Director Course F-59
- Supervision of Fire Alarm Systems Course S-95 (not mandatory)
- Fire Guard Course (not mandatory)
- Building Operation, Maintenance and Recordkeeping Training Course (BOMRTC). The BOMRTC must be attended by all Fire Safety Directors prior to the expiration of their F-25s or F-58s through September 30, 2014. Radiant's fees for these courses are the lowest in New York City. Please visit our website for additional information, services and to register for these courses.

The official answers to the 250 scenarios may be purchased for only \$20 by visiting our offices at 14 East 39th Street, 2nd Floor (between Madison Avenue and 5th Avenue) or by making a money order payable to **Radiant Training & Consulting, LLC**; and mailing it to: Elvis Polanco, President, Radiant Training & Consulting, LLC, 14 East 39th Street, 2nd Floor, New York, NY 10016. Please include your full name and complete mailing address.

About the Author

Radiant Training & Consulting, LLC was founded to meet the growing demand for professional training and consulting services in the protection management field. The author's strategic initiatives are designed to provide training and consulting services based on 24 years of professional experience and a graduate level protection management education. Radiant is a leader in developing Fire Safety and Evacuation Plans and Emergency Action Plans.

The author holds a Bachelor of Arts Degree from the Bernard M. Baruch College School of Liberal Arts and Sciences and a Master of Science Degree in Fire Protection Management, *summa cum laude*, from John Jay College of Criminal Justice. He is certified as a Protection Professional—CPP—in Security Management by the ASIS International Professional Certification Board, is an Allied Member of the Hotel Association of New York City (HANYC) and an Associate Council Member of the Fire and Life Safety Council at ASIS International.

As a New York City Fire Safety Director—FSD—and Emergency Action Plan Director—EAPD—the author combines his security and fire safety management experience, from both academia and the built environment, to develop and administer compelling, comprehensive and incomparable fire safety consulting programs. He is a NYS Certified

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Security Instructor and an American Red Cross Certified CPR/AED Instructor who has authored and published numerous articles on security and fire safety in the built environment in *Security Director* and *Security Director News* magazines. His opinions have been published in the *New York Daily News* and *The Wall Street Journal*.

His active professional memberships include ASIS International, the National Fire Protection Association (NFPA) where he is a member of the Building Fire Safety Systems Section, the Fire Safety Directors Association of Greater New York (FSDA), NYPD Shield, InfraGard, the Office of Emergency Management CorpNet Program, the John Jay College Alumni Association and the International Law Enforcement Educators and Trainers Association (ILEETA). He is a Notary Public Officer of the State of New York.

The Company's programs offer sound consulting principles to assist in the resolution of contemporary fire safety issues and emergency management concerns critical to the protection of people from harm and property from loss.

Revised December 1, 2011

1. Manual pull stations are red. Those in Group "B" buildings and Group "R-1" hotels have a one-inch diagonal white stripe from the top left corner to the bottom right corner. What is the meaning of the white stripe? Why are these white-striped pull stations found in "B" and "R-1" properties? Explain your answer.
2. A smoke detector is designed to detect smoke and activate a fire alarm. Why must area smoke detectors be located in elevator lobbies? Explain your answer.
3. A "sky lobby" is an upper floor where passengers must transfer from one elevator bank to another to reach the desired floor. In a two-bank building, will there be a blind shaft on the bank that services the higher floors? Yes/No? Explain your answer.
4. The Building Evacuation Supervisor is not required to hold a certificate of fitness Fire Safety Director, but must have a certificate of fitness fire guard in the event there is a torch operations job scheduled when the building has less than 500 people. True or false? Explain your answer.
5. The heat that is generated by the sun is transferred via radiation. Why is it not via conduction? Explain your answer.
6. The ball-drip valve in a fire suppression system is located on the first sub-grade level of a building. Why is it not located on another level? Explain your answer.
7. If a Fire Safety Director is not required to be present in a Group "B" building, then who is required to be in the building to address fire alarm emergencies in the absence of the Fire Safety Director? And, what determines when a Fire Safety Director is required to be in the building? Explain your answers.
8. No fire alarm activation goes directly from a peripheral device to the Fire Department. In a fire alarm system, where do all fire alarms first report the activation of a peripheral device and why? Explain your answers.
9. Area smoke detectors are readily visible and usually appear on the ceiling level of a room. Duct smoke detectors are also designed to detect smoke. What are duct smoke detectors and why are they necessary? Explain your answer.
10. In all instances when the system is "off-line" with the central station, what must the Fire Safety Director do to ensure a Fire Department response and why? Explain your answers.

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11. A “drain down” occurs when the building engineers have to drain the water from the branch lines on a floor in order to perform work on the sprinkler system. Will the fire alarm activate when the water is drained from the branch lines or when the branch lines are refilled with water after the work is completed? Explain your answer.
12. What is the purpose of the OS&Y valve? Why is it chained/padlocked in the open position even when a Tamper Switch already exists? Explain your answer.
13. Besides asking someone or searching online, where can a person find the name of the Fire Safety Director in a Group “R-1” hotel? Explain your answer.
14. The stairwell design that allows tenants to travel freely between two or more floors is known as an access stair or “convenience stair.” Why it is critical for all access stairs in the building to be listed in the Fire Safety and Evacuation Plan? Explain your answer.
15. If peripheral devices are disabled (by-passed) where necessary, for example, due to construction work, it is also necessary to go ““off-line”.” Is this statement true or false? Explain your answer.
16. Manual pull stations are programmed to not activate fail-safe door release due to security concerns. This then prevents the fire alarm from being transmitted to the Fire Department. True or false? Explain your answer.
17. Elevators recall upon the activation of certain automatic smoke and water-flow detecting devices. In Phase I of elevator recall, elevator occupants may communicate with a security officer at the lobby desk via the activation of the elevator’s “alarm” button. Is this true or false? Explain your answer.
18. The sprinkler system’s Fire Department connections have color-coded caps to identify the type of system in the building. Why are the caps made of metal? Explain your answer while considering the integrity of the lower check valve. Explain your answers.
19. The “Inspector’s Valve” in a sprinkler system is located in a specific area of the system to ensure that there is water in the entire system upon inspection. Based on the premise that “if there is water at this point, there must be water in the entire system,” where should the Inspector’s Valve be located? Explain your answer.
20. While the fire alarm system is ““on-line”,” a fire alarm activation is investigated and is determined that it was an unwarranted alarm due to an employee smoking underneath a smoke detector. The Fire Safety Director should immediately disable the smoke detector and reset the system. Are these the correct actions for the Fire Safety Director to execute? Explain your answer.
21. A “rate of rise” heat detector activates when the heat reaches a pre-determined fixed temperature. Is this statement true or false? Explain your answer.
22. A gravity tank is used to supply water for domestic use in the building via gravity. Why then is an upper check valve needed below the gravity tank on the standpipe riser? Explain your answer.
23. The exposed pipe in a Fire Department Connection is painted green and the caps are painted red. A firefighter responding to a fire alarm activation will assume that the building’s fire suppression system consists of a standpipe system only. Is this a correct assumption? Explain your answer.
24. Tom Smith is the facilities manager for Company X. Company X is a leaseholder in a non-high-rise commercial building. Can Tom Smith be designated to the Fire Brigade? Yes or no? Explain your answer.

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25. Although retail stores have peripheral alarm-activating devices connected to the building's fire alarm system, their employees are not required to participate in fire drills because they are not considered tenants of the building. Is this statement true or false? Explain your answer.
26. Bill Sawyer is a porter who has been working for the building's owner less than one week and is assigned to the Fire Brigade. Bill sees a posting for a job vacancy, applies and is hired by Company Y, which is housed in the same building where Bill worked as a porter. Bill is now the facilities coordinator for Company Y; however Bill wants to remain a member of the Fire Brigade. Can he? Explain your answer.
27. The Fire Safety Director has a scheduled vacation period of two weeks in August. In the absence of the Fire Safety Director a deputy Fire Safety Director covers the Fire Safety Director's post. The current Building Evacuation Supervisor resigns during the Fire Safety Director's absence. Who will assume the Building Evacuation Supervisor post? Explain your answer.
28. Company M leased 20,000 sf on the 18th floor of a commercial high-rise building. Of the 20,000 sf, Company M is sub-leasing 5,000 sf to Company B. Company B is required to have at least two employees, one of which will be assigned as Fire Safety/EAP Warden. Is this statement true or false? Explain your answer.
29. Tenants have the option of tying into a high-rise building's life safety emergency generator for a fee paid to the landlord. During a blackout, those tenants who opt not to tie into the building's life safety emergency generator will have no lighting on their floors for emergency egress. True or false? Explain your answer.
30. Some of the stairwells found in high-rise buildings are scissors, fire towers and access stairs. Another stairwell design is known as "return" stairs. What is the main component of this stairwell that differentiates it from the others listed? Explain your answer.
31. When the fire alarm system is "off-line" the communication is interrupted somewhere between the peripheral device, the Fire Alarm Control Panel, the central station and the Fire Department. Where in this communication string does the fire alarm terminate when the system is "on-line"? Explain your answer.
32. Fire requires oxygen, fuel, heat and the chemical reaction between these three elements. A carbon dioxide fire extinguisher, when activated to extinguish a fire, will remove the heat element by cooling the fire to a temperature rating that is cooler than the heat required for the fuel to burn. True or false? Explain your answer.
33. A fire extinguisher rated 2A indicates that the fire extinguisher was tested in a controlled setting and is expected to effectively extinguish a Class "A" fire that encompasses 2 sf. Can this rating "change" during a "real time" fire? Does it matter who the person is who is using the extinguisher? Yes or no? Explain your answers.
34. A person who wishes to acquire a certificate of fitness Fire Safety Director must provide the Fire Department with an experience verification letter(s) indicating a minimum of two years (assuming a three-year waiver has been approved) of fire safety related experience. Therefore, the minimum age a person must be in order to be approved to receive a certificate of fitness is 21 (18+3). True or false? Explain your answer.
35. In an auditorium that is housed in a commercial high-rise building and that can accommodate 70 people, will a Place of Assembly Certificate of Operations be required to be produced to a Fire Department inspector? Will a sign indicating the maximum number of people allowed to be in the auditorium be conspicuously posted? Explain your answers.
36. The Fire Safety Director feels that testing manual pull stations annually as required by Code is too big a gap between tests and has decided to violate the code by testing the manual pull stations every three months (4 times per year). What type of violation will the Fire Department issue? Explain your answer.

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37. Check valves are located throughout the fire suppression system to control water movement in the system. The primary function of check valves is to allow the water to enter the system when the fire pump is activated. True or false? Explain your answer.
38. During a vertical patrol of the building, a security officer informs the Fire Safety Director that a "loaded" sprinkler head has been found. The Fire Safety Director informs the security officer that he will contact the Fire Department to have the sprinkler head replaced. What is a "loaded" sprinkler head? Is this action correct on the part of the Fire Safety Director? Explain your answers.
39. James Jones, who is employed by Company J (the leaseholder) in a commercial high-rise building, refuses to be a member of the Fire Brigade because it is a voluntary position with no monetary compensation and extra work duties. The president of Company J terminates Mr. Jones' employment for being uncooperative. Was the president correct in terminating Mr. Jones' employment for refusing to be a member of the Fire Brigade? Explain your answer.
40. A Building Evacuation Supervisor should respond to all fire alarm activations by immediately reporting to the Fire Alarm Control Panel. Should the Building Evacuation Supervisor report to the hotel's Fire Alarm Control Panel and make an announcement, or should he report to the floor below the fire floor? Explain your answer.
41. A patrol of the 20th and 21st Floor reveals that stairwell doors have been removed. The construction superintendent informs the security officer that they removed the stairwell doors to facilitate them walking and carrying equipment between the two floors. The security officer informs the Fire Safety Director. What would be the proper action for the Fire Safety Director to take? Explain your answer.
42. A candidate for the certificate of fitness Fire Safety Director who is 18 years old reports to the Fire Department with a Fire Safety Director Graduation Diploma from Radiant Training & Consulting, LLC, a completed Certificate of Fitness Application A-20, \$25 for the test fee, an affidavit indicating five years of fire related experience, but is currently unemployed. What would be the Fire Department's response to his application (accept/reject) and why? Explain your answer.
43. Hotels require the participation of hotel employees, but not hotel guests whenever they schedule semi-annual fire drills. Is this statement true or false? Explain your answer.
44. The fire hoses on Standpipe Systems are designed to stretch no more than 125 feet. If the Gate Valve (wheel) is not turned to release the water from the standpipe into the hose, the water flow switch will not activate. Is this statement true or false? Explain your answer.
45. When a hotel guest inadvertently activated the manual pull station on the 30th floor, it immediately activated some "actions" such as: the fire siren, the strobe lights, a signal at the Fire Alarm Control Panel, elevator recall and the public address system. Do these actions also occur when a manual pull station is activated in a Group "B" property? Explain your answer.
46. Hotel Guest room doors are equipped with "closers" which allow the doors to self-close. This same principle applies to stairwell doors. When closers are found to be missing, the Fire Safety Director must immediately report this violation to the Deputy Fire Safety Director, who in turn must report the violation to the Department of Buildings. This is the most effective and quickest means to have the missing closers installed. True or false? Explain your answer.
47. A hotel/building has two emergency stairwells labeled "A" and "B." A stairwell used by firefighters is known as the "attack" stairwell. The attack stairwell is pre-defined as the stairwell with the first letter designation, in this case the "A" stairwell. Is this statement true or false? Explain your answer.

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48. Hotels that require Fire Safety Directors must provide them 24/7, guests do not participate in fire drills and guests and hotel staffers are not required to activate warden phones. Based on this statement, list the titles of fire safety team members in "R-1" and "B" properties? Explain your answer.
49. When the engineers request a "drain down" of the branch lines of a sprinkler system, the water flow switch for the floor must be disabled to avoid a fire alarm from activating when the engineers drain the branch lines on the floor. True or false? Explain your answer.
50. A central station is an independent company that monitors alarms for a building from a remote location. The fire alarm system transmits an automatic telephone signal to the central station every 24 hours. If this signal fails, it will generate a work order and a central station representative will call the Fire Safety Director advising that the signal was not received. If a fire alarm activates, where will the signal terminate? What is the first action the Fire Safety Director should immediately take after receiving the call from the central station? Explain your answers.
51. A fire alarm activates while the system is "'on-line'." It is immediately known what caused the fire alarm to activate. It was not a fire. The Fire Safety Director calls the central station and orders the operator to cancel the Fire Department response. Will the central station operator follow the Fire Safety Director's order? Why? Explain your answers.
52. A candidate for a certificate of fitness Fire Safety Director reports to the Fire Department for the computer-based Certificate of Fitness exam with all the required documents, including one experience verification letter using the Fire Department's form letter and which indicates the prerequisite five years of experience. It is not notarized. The candidate finds a notary public in the area outside Fire Department Headquarters, notarizes it, and returned five minutes later. Will the Fire Department accept the letter? Explain your answer.
53. Buildings usually have four exposures: 1 to 4. A building which has receding exposures on the left and right side is indicative that the square footage decreases in some sections of the building. Based on this statement, what types of roofs are created in buildings with receding exposures? Can this type of roof be found on one exposure only? Explain your answers.
54. A fire alarm is activated by smoke detectors in the elevator lobby on the 35th floor of a hotel. Elevator Bank "A" services floors 1-20, Elevator Bank "B" services floors 1, 21-40 and Elevator Bank "C" services floors 1, 35, 41-60. In which elevator bank(s) will elevator recall activate? Explain your answer.
55. Elevator Bank "A" services floors 1-21, Elevator Bank "B" services floors 21-40 and Elevator Bank "C" services floors 1, 41-60. Which floor is a sky lobby and which bank(s) has a blind shaft? Explain your answers.
56. What is the name of the pump that when manually activated will supply water to the sprinkler/standpipe system and activates the upper check valve in the standpipe system? What is the role of the upper check valve when this pump is activated? Explain your answers.
57. The life safety emergency generator must provide power to the tenants' workstations and office computers to ensure continuity of business. True or false? Explain your answer.
58. What is the title of the person who is responsible for ensuring that notifications are made and precautions are taken when the fire protection system is out of service and the building is occupied? Fire Safety Director? Fire Guard? Impairment Coordinator? Explain your answer.
59. What two systems are interfaced to prevent a fire from spreading rapidly throughout a building? What effect does the interface of these two systems have on elevator recall Phase I operations? Explain your answers.

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60. A fail-safe door release system allows doors that are interfaced to the Fire Alarm Control Panel to release (unlock) upon activation of a fire alarm. All reentry doors in the emergency stairwells must release, allowing occupants to enter the emergency stairwells from the occupant side without the use of a change key or card key. Is this a true statement? Explain your answer.
61. The Alarm Log Book used by the Fire Safety Director in Building X is a loose-leaf binder with the words: "Fire Alarm Log Book" on the cover. What is the major defect with this log book? Explain your answer.
62. The switch on the Fire Alarm Control Panel that is used to test the reliability of the bulbs/lights on the Fire Alarm Control Panel is known as the "Lamp Test" switch. The Fire Safety Director is required by Code to conduct a lamp test every day. What is the name of the log book in which this information is recorded? Explain your answers.
63. When a Tamper Switch sends a signal to the Fire Alarm Control Panel and the system is "on-line", the Fire Department will respond to investigate the cause of the activation. True or false? Explain your answer.
64. The Fire Safety Director in a new construction of a Group "B" building meets with the property managers to discuss conducting the fire drills every six months. They finalize the dates for the building's first fire drill and notify the tenants via email or hard-copy communication of the dates when their floors are expected to participate in the fire drills. The communication also indicates that all people on the floors at the time of the fire drills must participate. Appropriate signs are posted on the lobby level and by the elevator banks to remind the tenants about the fire drills. Is this Fire Safety Director planning the fire drills correctly? Explain your answer.
65. A fire extinguisher containing water should be used to extinguish Class "A" fires. Why shouldn't water fire extinguishers be used to extinguish electrical fires? Explain your answer.
66. An automatic wet sprinkler/standpipe system usually has sub-systems because of different locations that need to be protected within the building. A sub-system known as a "pre-action" system contains a clapper valve that separates pressurized air from the source of the extinguishing agent. The components of this system are sprinkler heads and smoke detectors. How does this system work and why it is mostly found in computer rooms? Explain your answers.
67. An automatic wet sprinkler system is usually not installed in loading docks. In lieu of an automatic wet system, what type of system should be installed in loading docks and why? Will this system activate a fire alarm at the Fire Alarm Control Panel? Explain your answers.
68. The fire alarm system has malfunctioned on floor 20 and the system will not be corrected for a minimum of one week. The Fire Safety Director also holds a certificate of fitness Fire Guard. When there are less than 500 people in the entire building and less than 100 above or below the street level, the Fire Safety Director works overtime as a Fire Guard on the 20th floor. In this situation, is the Fire Safety Director permitted to work as a Fire Guard? Explain your answer.
69. The fire alarm system has malfunctioned on floor 20 and the system will not be corrected for a minimum of one week. The Building Evacuation Supervisor also holds a certificate of fitness Fire Guard. When there are more than 500 people in the entire building and more than 100 above or below the street level, the Building Evacuation Supervisor works overtime as a fire guard on the 20th floor. In this situation, is the Building Evacuation Supervisor permitted to work as a Fire Guard? Explain your answer.
70. While John Peterson is waiting for an elevator in the elevator lobby on the 45th floor, a fire alarm activates and the elevators in the bank where John is standing recall. John cannot hall-call an elevator. The glass doors in the lobby, and which block John from reaching the emergency stairwells, do not have to fail-safe release. True or false? Explain your answer.

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71. Henry Miller is riding an express elevator that services floors 1, 50-80 in Bank "B". The elevator is passing the 35th floor when elevator recall is activated by a smoke detector in Bank "A" on the 12th floor elevator lobby. Why would/why won't the elevator Mr. Miller is riding recall to the street level elevator lobby? Explain your answer.
72. The temperature in a room exceeded the fixed rating on a sprinkler head in an automatic wet system. However, the sprinkler head did not fuse. Why? Explain your answer.
73. Hotel fire drills are conducted quarterly by the Fire Safety Coordinator. During each of the four quarters, the drills are conducted three times (one per shift) for a total of 12 fire drills per year. True or false? Explain your answer.
74. Upon Fire Department response to a fire alarm, the Fire Safety Director must ensure that all the elevators in all the banks recall for Fire Department use of the elevators. If an elevator is on "independent" mode, that elevator will not recall in Phase I, but will in Phase II. Are these statements true or false? Explain your answer.
75. A contractor who is demolishing the 35th floor requests from the Fire Safety Director that the peripheral devices on the floor be taken "off-line". What actions will a Fire Safety Director take, who understands the true nature of the contractor's request, to ensure that a fire alarm is not activated during the demolition? Explain your answer.
76. While the system is "off-line" a fire alarm activates elevator recall. The building has two escalators that allow the tenants to travel from the elevators down to the ground level, where they can exit to the street. Based on the building design, can it be implied that the elevators recall to a "lowest terminal landing"? Yes or no? Why? Explain your answers.
77. Fire Department personnel enter a building and proceed to the Fire Alarm Control Panel and ask for the Fire Safety Director. Is the system "on-line" or "off-line"? Explain your answer.
78. The Fire Safety Director called out sick for the day. The Deputy Fire Safety Director is covering the shift and is the only person in the building with a Certificate of Fitness Fire Safety Director. While on lunch in the 30th floor cafeteria, a fire alarm activates on the 60th floor. Having no portable communication system on their person (or anyone to tell him/her of the alarm), how will the Deputy Fire Safety Director be notified of the fire alarm activation on the 60th floor? Did the Deputy Fire Safety Director violate the Code by not being at the Fire Alarm Control Panel when the fire alarm activated? Explain your answers.
79. Steve Katz, the Fire Safety/EAP Warden for Company K no longer wants the position and has asked the Fire Safety Director that a more interesting position would be to become a member of the Fire Brigade. Mr. Katz resigns from Company K and joins the security staff in the same building that houses Company K. Can the Fire Safety Director now assign Mr. Katz to the Fire Brigade? Explain your answer.
80. While ascending in passenger elevator #1 in Bank "A", Ellen notices that the "fireman's helmet" button light comes on. Concurrently, while descending in passenger elevator #9 in Bank "B", Patricia notices that the same light comes on inside the elevator she is riding. Explain what has happened.
81. While preparing to test Elevator Recall, the Fire Safety Director activates the elevators by alarming an area smoke detector in the electric closet. Will this procedure activate elevator recall? Name three methods of activating elevator recall? Explain your answers.
82. Upon reaching the fire floor via "attack" Stairwell "A", firefighters open the stairwell door to access the fire floor. They stretch the hose and actively fight the fire. Will they use the building-provided hose? Explain your answer.
83. Joanne Garcia is ascending in elevator #1 to the 20th floor. The "fireman's helmet" light comes on, the elevator stops on the 18th floor, the elevator doors remain closed the entire time and the elevator remains on the 18th floor.

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What is Ms. Garcia experiencing—Elevator recall, an elevator entrapment or “independent” service? Explain your answer.

84. Tony Montana approaches the Fire Alarm Control Panel in the Main Lobby and informs the Fire Safety Director that there is a smoke condition and possible fire on the third floor of the building. What is the name of the switch located at the Fire Alarm Control Panel that the Fire Safety Director must activate immediately? Why did the peripheral devices not activate a fire alarm from the third floor? Explain your answers.
85. The Fire Safety Director arrives at the Fire Alarm Control Panel at 6:59a for the 7a-3p shift, reads the Alarm Log Book and finds an entry indicating that the system was taken “off-line” at 11p the previous night, determines that the Fire Alarm Control Panel is operational, does a successful lamp test and finds that there are no trouble signals present. Is the system “on-line” or “off-line”? Explain your answer.
86. In a building with a gravity tank, when the fire pump is activated, the domestic water pumps shut down. True or false? Explain your answer.
87. The Fire Safety Director calls the central station and asks that the system be taken “off-line” beginning at 10a on July 4th, a national holiday. The central station operator informs the Fire Safety Director that because it is a nationally recognized holiday, “off-line” requests are not being processed. The Fire Safety Director demands that the system be taken “off-line”. The operator hangs up the telephone. Who is correct, the Fire Safety Director or the central station operator? Explain your answer.
88. The Fire Safety Director calls the central station 10 times in one 24-hour period and is informed by the central station operator that 10 is the maximum number of calls that one building can make to the central station in a 24-hour period. The Fire Safety Director disagrees. Who is correct? Explain your answer.
89. A request from an ironworks company to use a torch from 6p-9p (the time that it will take to complete the work) on the 8th floor has been processed and approved by the management company. The torch operator works for a licensed company and liability insurance coverage has been verified. A person holding a Certificate of Fitness Fire Guard is near the torch operator and fire extinguishers are visible and readily reachable by the Fire Guard. The fuel nearest to the torch operations work is at least 50 feet away. The Deputy Fire Safety Director patrols the 8th floor at 7:30p looking to see if they are smoking and finds that they are **not** smoking cigarettes. The Deputy Fire Safety Director immediately terminates the entire project. The torch operator and the Fire Guard are escorted out of the building. What did the Deputy Fire Safety Director discover? Was the Deputy Fire Safety Director authorized to terminate the project? Explain your answers.
90. Alex argues that the water in a gravity tank is only for domestic use, such as faucets, toilets and water fountains in the building. Jose claims that Alex is incorrect and that the water in the gravity tank is only for the fire suppression sprinkler/standpipe system. Maria argues that both Alex and Jose are wrong and that the gravity tank water is used for both domestic use and fire suppression. Who is correct and why? Explain your answers.
91. A fire alarm activates and the Fire Safety Director is not near the Fire Alarm Control Panel. What is the name of the tone that will activate throughout the building, with the exception of the fire floor, floor above the fire floor and floor below the fire floor, to notify the Fire Safety Director that a fire alarm has been received at the Fire Alarm Control Panel? Was the fire alarm acknowledged upon receipt at the Fire Alarm Control Panel? If yes, by whom? Explain your answers.
92. In Building X, Joe enters the emergency stairwell on the 9th floor and is not able to get back into the office side because the stairwell door locked behind him from the stairwell side. Joe decides to walk down to the street level to smoke a cigarette. While walking down, he tries to open the stairwell doors on every floor and finds that the doors with electro-mechanical locks opened from the stairwell side on the 8th floor and the 4th floor. Concurrently the Fire Safety Director is addressing a fire alarm activation at the Fire Alarm Control Panel. Joe did not hear the fire alarm

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siren. On which floor did the fire alarm activate? Does Building X have a fail-secure or fail-safe release system? At what floor-intervals are re-entry doors set to release? Explain your answers.

93. The Staffing Charts on the 20th Floor indicate that the Fire Safety/EAP Warden is Julie Jones, the Deputy Fire Safety/EAP Warden is Diane Fuller, the Male Fire Safety/EAP Searcher is Peter Malig and the Female Fire Safety/EAP Searcher is Fanny Medina. Mr. Malig resigned two weeks earlier. Indicate three possible reasons why the Fire Safety Director did not remove Mr. Malig's name from the Staffing Chart. Explain your answers.
94. Upright sprinkler heads are used in buildings with drop-down ceiling tiles. True or false? Explain your answer.
95. Building H has cross-over elevator lobby smoke detectors. Upon activation of one elevator lobby smoke detector, the elevators servicing the fire alarm floor recall. True or false? Explain your answer.
96. Bruce, a hotel guest is deaf and his friend Alice requests that a portable strobe light be assigned to Bruce's room. The hotel staff fulfills the request. A guest who is blind requests a portable fire alarm siren. The request is met. What device would be provided to a hotel guest who is both deaf and blind? Explain your answer.
97. At 3a, a wealthy couple was ascending to their Penthouse Suite on the 81st floor of a posh hotel, where only one exclusive passenger elevator (#1) services the 81st floor. Concurrently, the person operating the service (freight) elevator complains to the Fire Safety Director using the elevator's intercom system, that the freight elevator malfunctioned and that it would not ascend to any of the floors it services, from the ground floor to the 80th floor. A fire alarm activated at 2:58a while the system was "on-line". On what floor did the fire alarm activate? What happened with the freight elevator? Did passenger elevator #1 continue to operate? Explain your answers.
98. During an inspection of the Places of Public Assembly, the FDNY inspector asks the Fire Safety Director for the floor plan for the Place of Public Assembly (Cafeteria on the 10th floor). The inspector also requests to be escorted to the cafeteria. The inspector finds that 3 tables and 12 chairs have been added to the cafeteria layout and are not reflected on the floor plan. The inspector will recommend to the Department of Environmental Protection not to renew the Place of Public Assembly Certificate of Operations permit. True or false? Explain your answer.
99. The gravity tank's fire reserve is controlled and measured by sensors inside the tank. A tank holds 10,000 gallons, of which 3,000 gallons are reserved for fire suppression. Upon activation of a sensor, the fire pump will re-fill the gravity tank at the 3,000 gallon-level because the fire reserve water level cannot be below 3,000 gallons; and another sensor will indicate when the tank has reached the 10,000 gallon level in order to prevent the tank from overfilling. True or false? Explain your answer.
100. When the firefighters connected to the Fire Department with the red cap colors, they knew immediately that the building contained an automatic dry sprinkler system. True or false? Explain your answer.
101. A pendent sprinkler head activated on the 45th floor of a 50-story building. Twenty seconds later an area smoke detector activated inside the low-rise elevator machine room servicing Bank "A's" four elevators. The building has two elevator banks. Which device activated elevator recall for elevator #s 5-8? Explain your answer.
102. Upon picking up the telephone, the Fire Safety/EAP Warden dialed the number to contact the building's Fire Safety Director to report a smoke condition on the 10th floor restaurant's kitchen. What is the name of the telephone that the Fire Safety/EAP Warden activated to report the smoke condition? Explain your answer.
103. Property X requires a Fire Safety Director between 7a-7p, Monday to Sunday as indicated in the Fire Safety and Evacuation Plan. What can be concluded from this statement about the number of people in the property between 7p-7a, Monday to Sunday? Is this property a hotel? Yes or no? Explain your answers.

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104. An auxiliary tone is heard by people in a 45-floor property, except for the people on three of those floors. What did the people on the three floors hear over the public announcement/speaker system that the people occupying the other 42 floors did not hear? Where was the Fire Safety Director? Explain your answers.
105. Building W allows people to enter a section of the building where ID cards are not required and which the general public may visit, including the homeless population, from 8a-4p, Monday to Friday. A Fire Safety Director is required to be in the building during this time. What is the name of this area of the building? Is a Fire Safety/EAP Warden required to be assigned to this area? Yes or no? Explain your answers.
106. A Fire Safety Director who holds a Certificate of Fitness F-25 may work in a Group "B" building and Group "R-1" hotel. Is this statement true or false? Explain your answer.
107. In a fire suppression system, a standpipe riser allows the vertical flow of water from a gravity tank to the floors below. The horizontal pipes are known as branch lines. What are the names of the devices on the branch lines that do not activate fire alarms? Explain your answer.
108. A fire safety program includes the assignment of "Buddies" to people who have disabilities that make it difficult, if not impossible for them to evacuate using the emergency stairwells during a fire. The person with the disability works from 10a-6p. The Buddy works from 9a-5p. Should the person with the disability request a change in their work schedule? Why? If so, what schedule should the person request? Explain your answers.
109. The Fire Safety Director activates the communication of a fire emergency to the central station, which in turn dispatches the Fire Department to the building. No one in the building, including the Fire Safety Director, heard the fire alarm siren, the strobe lights did not activate, elevators did not recall, doors did not release, warden phones were not activated, fans did not shut down, smoke detectors did not detect smoke, dampers remained open, heat detectors did not detect heat, the pressurized stairwell fan did not come on, sprinklers did not activate and hoses were not used. What happened? Explain your answer.
110. The Fire Safety Director is informed by a security officer that a fire alarm has activated. The Fire Safety Director acknowledges the fire alarm at the Fire Alarm Control Panel and eventually identifies the smoke detector that activated because it had a steady light. The Fire Safety Director then makes an "all clear" announcement to the fire floor, the floor above the fire floor and the floor below the fire floor. The system was "off-line" at the time of the alarm activation. The Fire Alarm Control Panel was reset. What did the Fire Safety Director do that was incorrect and put the building occupants' lives at risk? Explain your answer.
111. While working in room with no windows and only one door; and which contains sensitive documents, an employee of Company G inadvertently gets locked inside the room. The cell phone has no reception. There are no hard-wired phones in the room or other means of communicating with the "outside world." It is Friday, August 20, 10p. The employee activates the fire suppression system inside the room to get the attention of the Building Evacuation Supervisor, who is the only other person in the building. Firefighters open the room door and find the employee dead. What happened? Was the system "on-line" or "off-line"? Explain your answers.
112. The executive chef for a multi-million dollar investment bank located on the 35th floor is using grease to cook the day's lunch for the bank's employees. A grease fire starts and the chef gets a "K" fire extinguisher and suppresses the fire. How far did the chef have to go to get the extinguisher? Explain your answer.
113. A property has a life safety emergency generator. John is employed by Company D and the company is not tied into the building's life safety emergency generator. Upon a blackout, will John find himself in complete darkness? Explain your answer.
114. The ball drip valve is not allowing water to drip to the floor drain because the ball inside the valve has covered the hole on the valve. A supervisory signal is received at the Fire Alarm Control Panel. A pedestrian

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enters the property and informs the Fire Safety Director that water is pouring out of the Fire Department Connection on the right side of the property. The Fire Department does not respond. What has happened? Is the system “on-line” or “off-line”? What criticism will the property manager have for the chief engineer? Explain your answers.

115. A construction crew is creating private offices on the 3rd floor. Gypsum boards are being used to create the separating walls. After the floor is completed and occupants move in, a fire occurs and one employee is entrapped in one of the private offices. Theoretically, how much protection, in hours, does the employee have before being at risk of injury or death? Explain your answer.
116. A duct smoke detector activates on the 23rd floor of a 60-story building that has three elevator banks (A, B & C) that serve the floors equally and which have four elevators each. Another duct smoke detector activates on 23rd floor. An area smoke detector activates on the 24th floor. Two passenger elevator lobby smoke detectors activate on the 25th floor. Other area smoke detectors activate in the telephone closet, the electric closet; and inside the elevator machine room nearest to the 23rd floor. A manual pull station is activated. The system is “off-line”. What is happening? Did any elevators recall? If so, which bank(s) recalled and what are the numbers of those elevators that recalled? Explain your answers.
117. An airplane hangar has a fire suppression system where all the sprinkler heads are “open.” What is the name of this type of sprinkler system? Explain your answer.
118. A Fire Department inspector meets the Fire Safety Director on February 4th and returns the next year on January 30th. The system is “on-line” during both inspections. A manual pull station is activated on a floor and a fire alarm reaches the Fire Alarm Control Panel during both inspections. The Fire Safety Director acknowledges the alarms and makes the proper announcements. The local Fire Department does not respond to the fire alarms. What is the name of this Fire Department inspection? Explain why the Fire Department did not respond to the fire alarm and why fail-safe door release did not function? Was the Fire Safety Director issued a violation? Explain your answers.
119. An employee of Company S by the name of Zack depresses the hall-call button in the low-rise elevator bank at the beginning of the lunch hour: 12p. The button lights up. Two seconds later the button light goes dark. After a couple of minutes of waiting Zach walks down the stairs. Zack hears no fire alarms or announcements. What is happening with the elevators in the mid-rise and high-rise banks? Did the Fire Safety Director make an announcement? Explain your answers.
120. On Monday, November 14 at 8a, Susan gets stuck while riding passenger elevator #1. Susan is released from the elevator at 2p. The Fire Safety Director worked overtime on Monday, November 14th from 6a-7a to test elevator recall Phase I and Phase II. Which elevator function did the Fire Safety Director fail to test in elevator #1? Explain your answer.
121. Thomas, a Fire Safety/EAP Warden signs in at the beginning of the workday. The office manager knows that the Fire Safety/EAP Warden is at work by looking at the employee sign-in sheet. The Fire Safety Director looks at the same sign-in sheet to confirm that Thomas is present. True or false? Explain your answer.
122. The FDNY inspector is reviewing the Fire Safety and Evacuation Plan and discovers that a document is missing from the Fire Safety and Evacuation Plan. The missing document contains information about live loads, occupancy groups and description of use for each of the building's floors. The inspector directs the Fire Safety Director to add a copy of the document to the Fire Safety and Evacuation Plan. The Fire Safety Director adds a copy of the Emergency Action Plan (EAP). Is this the document that the inspector requested? If not, what is the name of the document that should be part of the Fire Safety and Evacuation Plan? Explain your answers.
123. When a fire alarm activated, the Deputy Fire Safety/EAP Warden for Company Q on the 35th floor reported to the Fire Safety Director that all the floor occupants were standing by and ready to In-Building Relocate via stairwell X if

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necessary. The Fire Safety/EAP Warden on the 34th floor also called the Fire Safety Director to report floor activities and that in fact there was a smoke condition on the floor and they were evacuating via stairwell X, which was the farthest stairwell from the fire. The Fire Safety Director immediately and simultaneously In-Building Relocates Floors 33, 34, 35, 36 and 37. What is the name of the company on floor 34? What is the name of the company on floor 36? What is the name of the company on floor 37? Why did the Fire Safety Director immediately evacuate those five floors simultaneously? Explain your answers.

124. A firehouse responds to a fire alarm in a hotel. Which truck is the Battalion Chief riding? Explain your answer.
125. A fire is discovered in a building with only 230 occupants in the entire building. The Fire Department response is activated by Michael, an employee of the building. Michael holds a Certificate of Fitness Fire Guard and is trained by the Fire Safety Director. None of the 230 occupants heard Michael make an announcement. What is Michael's function? Why did the building occupants not hear Michael make an announcement? Explain your answers.
126. A hotel has 400 rooms. The exclusive Presidential Suite is located on the seventh floor. The 10th floor is a mechanical floor. Buttons on the passenger panel inside an elevator that services the entire hotel are labeled "C1" and "C2" and there are 10 rooms per floor for use by guests. There are no guest rooms in the hotel lobby. How many floors are there in this hotel? How many floors do not contain guest rooms? How many fire drills are conducted per year at this hotel? Explain your answers.
127. Jeff holds a Certificate of Fitness Fire Safety Director. Peter holds a Certificate of Fitness Fire Guard and Jasmine holds a Certificate of Fitness Fire Safety Coordinator. Who is working at a construction site? Explain your answer.
128. The Fire Safety Director, who is posted at the Fire Alarm Control Panel, receives a report of a smoke condition via portable radio ("walkie-talkie") from Joe, who holds a Certificate of Fitness Fire Guard and is a full time Deputy Fire Safety Director. It is 3a on a Saturday and Joe is carrying a bullhorn. If this building is following the code requirements, how many people are inside this Group "B" property? What is Joe's assignment while patrolling floors 10 to 13? Is Joe being paid at time-and-a-half? Yesterday, Joe told his friend Stephanie that he holds an F-25: Is Joe telling Stephanie the truth? Explain your answers.
129. A fire alarm activates on the 15th floor and releases the fail-safe reentry doors in the property. The Fire Safety Director In-Building Relocates the fire floor, the floor above the fire floor and the floor below the fire floor; and informs the occupants to evacuate to a reentry floor using Stairwell "A". The 14th floor is a reentry floor, as is the 6th floor; followed by the 2nd floor. To what floor did the Fire Safety Director instruct the evacuees to In-Building Relocate to? Which reentry floor is nearest to the street level in Stairwell "B"? Explain your answers.
130. During elevator recall of Bank "C", the only person riding passenger elevator #13 is Jack. Jack depresses the "emergency stop button" and informs the Fire Safety Director of what is happening with the elevator. The elevator does not stop and reaches the lowest terminal landing. The "emergency stop" button worked during Phase II. Did the "emergency stop" button malfunction when Jack depressed it? Did the "Alarm" button inside the elevator malfunction? Explain your answers. [revisit this scenario]
131. "Tread and Riser." What do these terms represent? Explain your answer.
132. A glass rod breaks. Water flows. All automatic devices in the Fire Alarm System are disabled. Will the Fire Safety Director respond to the Fire Alarm Control Panel in response to a fire alarm activation? If so, what type of peripheral device activated the fire alarm? Explain your answers.
133. A large hotel has 500 guest rooms numbered 1-500; 20 elevators numbered 1-20 that respond to a lowest terminal landing; 10 stairwells labeled 1-10; 4 sub-grade floors identified as C1, C2, C3 and C4; 45 floors, 2 escalators and 4 elevator banks identified as A, B, C and D. The Fire Safety Director responds to a fire alarm at the Fire Alarm

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Control Panel. An active fire is reported by a guest and 6 people die. Where in the hotel are the two escalators located? Is this hotel in violation of the Code? Explain your answers.

134. "Light scatters/Ions slow down." Describe these two fire alarm-activating devices? If the fire alarm system is "off-line", will they activate? Explain your answers.
135. A manual pull station is activated from the 55th floor of a hotel immediately after a tamper switch activated on the 53rd floor. The system is "off-line". On which floor(s) did the guests hear the fire alarm siren? Explain your answer.
136. Elevator Bank "A" services floors 1-12. Bank "C" services floors 1, 6, 25-40. If a water flow switch activates on the sixth floor, which bank(s) will recall? Which bank services floors 1, 13-24? Which bank(s) has a blind shaft? Explain your answers.
137. Firefighters arrive at the building in response to an active fire. They walk through the four lobby doors without having to touch the doors. Could this building have revolving doors? Yes or no? If yes, what did the Fire Safety Director assign a member of the Fire Brigade to do? Explain your answers.
138. During a fire drill on the 45th floor, a Deputy Fire Safety Director instructs the participants to ensure that stairwell doors close behind them if they evacuate the floor. Is this fire drill taking place in a Group "B" or "R-1" property? Explain your answer.
139. Where in a hotel or commercial high-rise will the following signs appear: "In case of fire do not use elevators unless otherwise instructed"? Roy says that the signs are found in elevator lobbies throughout the hotel. Jerome disagrees. Who is correct? If Jerome is correct, then where are these signs posted? Explain your answers.
140. There is one elevator bank. The following numbers are black on a white background and are posted on the stairwell side of the doors: 20-19-18-17-16-15-14-12-11-10-9-8-7-6-5-4-3-2-G. 16 and 11 are reentry floors; followed by 7. The Building Evacuation Supervisor makes an announcement on the fifth floor in response to a fire alarm. Concurrently, a visitor enters passenger elevator #1 and ascends to the building's highest floor: 20. Is this building's reentry floor system in violation of the Code? On which floor could the visitor not get off using passenger elevator #1? Which type of devices could not have activated the fire alarm? Explain your answers.
141. While patrolling the property, a Fire Safety Director enters a room containing house water pumps. The pumps are active. Two hours later, the Fire Safety Director revisits the same room and finds that the house water pumps have shut down. What is the name of this room? What was happening with the pumps during the Fire Safety Director's first visit? Why did the Fire Safety Director find the pumps shut down on the second visit? Explain your answers.
142. The emergency egress consists of the "exit access," "exit" and "exit discharge." Where is a person during an emergency evacuation if the person is standing in the "exit"? Explain your answer.
143. One fire alarm activates and it is determined that an In-Building Relocation is necessary. The Fire Safety Director immediately and simultaneously evacuates five consecutive floors. This is a multi-tenant high-rise. Why did the Fire Safety Director evacuate five floors instead of just three? How many companies occupy the five floors that were evacuated? Explain your answers.
144. A Fire Department officer asks the Fire Safety Director for the six 2642 keys to recall the elevators. The officer inserts a key in the key switch at the Fire Alarm Control Panel. A firefighter inserts a key in the key switch inside passenger elevator #1. What is the key number that the officer inserts into the key switch at the Fire Alarm Control Panel? What is the Officer going to direct the Fire Safety Director to do next? Explain your answers.

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145. Among other schools, there is a school for the deaf on the 20th floor of a Group "B" property. There are 50 students and 10 staff members. Compared to the building's other occupants, how will the failure of the Fire Safety Director to make an announcement increase the risk of injury for the 50 students and 10 staff members? How will the failure of the strobe lights affect the 50 students and 10 staff members? Explain your answers.
146. The Fire Safety Director disables the following devices: smoke detector # 347829; heat detector # 987563; and water flow switch # 967533. What type of fire alarm system is installed in the property? Explain your answer.
147. What three words followed the statement: "Attention, attention please. This is the ___ ___ ___" over the public announcement system immediately after a fire alarm activation on a Friday at 8p in a property with a height of 60 feet. There were 89 people above the first floor of the property who heard the announcement while attending an in-house "Feed the Hungry" seminar, but who did not follow the directives to evacuate. When the sole survivor was questioned as to what was said over the public announcement system, the sole survivor stated, "Fire safety coordinator." Did the sole survivor hear correctly? Where did this tragic fire occur? Explain your answers.
148. [Building specifications: 20 stories; two elevator banks, each bank services 10 floors]. Upon activation of an automatic fire alarm at 3a on the fourth floor, the Building Evacuation Supervisor assumes that the fire alarm is due to airborne particles created by work being done by two carpenters. They are working in an area away from the building's elevators. The elevators in the low-rise bank recall and the Building Evacuation Supervisor is not expecting the Fire Department to respond. The Building Evacuation Supervisor resets the Fire Alarm Control Panel. Seconds later a manual pull station is activated on the same floor. The Building Evacuation Supervisor again assumes that there is nothing wrong and resets the Fire Alarm Control Panel. Which peripheral device activated the first fire alarm? Is there a fire in the building? State two reasons why the Building Evacuation Supervisor was not well trained by the Fire Safety Director? Explain your answers.
149. The Fire Safety Director receives a fire alarm at the Fire Alarm Control Panel, but the elevators do not recall. A member of the Fire Brigade immediately reports to the 18th floor and soon informs the Fire Safety Director that there are no obvious signs of fire/smoke in the area where the device with the steady light activated. On which floor did the fire alarm activate? Which type of device triggered the fire alarm? Explain your answers.
150. Madelene is riding passenger elevator #1 while talking on the cell phone. The Fire Safety Director does not know that Madelene is riding the elevator. A fire alarm activates and the Fire Alarm Control Panel is reset after the fire alarm is deemed unwarranted and while the system was "off-line". The Fire Department responds to the building. The Fire Safety Director asks the Fire Department officer why they responded to the building. What will the Fire Department Officer tell the Fire Safety Director is happening in the building? What communication system has failed in the building? Explain your answers.
151. 2½ inch hose. Who is authorized to use it? Building occupants, firefighters or both? Explain your answer.
152. An alarm sending device with two moving parts is completely red in color. Is the device an automatic or manual device? Is the device in a Group "B" property? How many actions are necessary for the device to send the fire alarm signal? Explain your answers.
153. The Building Evacuation Supervisor is on duty. The 4th floor is under renovation and because the fire alarm system is not operating on the floor, a Fire Guard is the second person in the building. The Fire Guard does not have a cell phone. The central station dispatches the Fire Department to the building. Who activated the Fire Department? How? Explain your answers.
154. On the third year of a property's operating existence, the Fire Safety Director becomes complacent and decides to reduce the number of annual fire drills to two since the occupants are very familiar with what to do in a fire emergency in the property. When the Fire Department representative arrives to conduct an inspection, the inspector issues the Fire Safety Director a violation for reducing the number of yearly fire drills. The Fire Safety Director argues

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that two annual fire drills are sufficient. The inspector disagrees. Who is correct? Why? What type of property is this? Explain your answers.

155. Laundered. Where is this item most likely to be found? In a museum, department store or concert hall? What is the name of the item? Does it need to be re-flame-proofed with a spray-on fire retardant? Explain your answers.
156. Fire Department Connections with aluminum colored caps indicate that the system has water. True or false? Is the system automatic wet or non-automatic? What do the colors red, green and yellow on the visible pipe of a Fire Department Connection represent? Explain your answers.
157. A hotel has yellow-colored caps on the Fire Department Connection that service the floors with Guest Rooms. A second Fire Department Connection with red-colored caps services the hotel's sub-grade levels. A third Fire Department Connection that feeds the sub-grade levels has yellow-colored caps. If there is an active fire on Floor C3, which of the Fire Department Connections will the firefighters activate to feed water to the sprinkler system? Explain your answer.
158. 90 minutes. What device in the emergency means of egress is being referred to? Is the tenant paying a "tied-in" fee? Explain your answers.
159. The means of egress are untenable and the three occupants have to decide which would be the ideal action to protect themselves from the fire and smoke. Robert selects to seek protection in a room with an opaque door, but no window. Steven selects the room with an opaque door and a large window overlooking another property. Colin selects to penetrate the smoke condition and attempt to reach the emergency stairwells. Who made the best decision? Why? Explain your answers.
160. Two pressurized stairwells activate. If there is an active fire on the 18th floor and one on the 10th floor of a 20-story building, on which floors will the smoke enter the stairwells? Explain your answer.
161. A booster pump would activate in a Group "B" property that has 65 floors, a gravity tank and an automatic wet standpipe system; and when a water flow switch activates on floor 63. True or false? If true, name the lines that would be pressurized by the booster pump? If false, why? Explain your answers.
162. The engineer manually activates a fire alarm from the 23rd floor. The device generates a fire alarm siren, strobe lights flash, the FIRE sign flashes, elevators recall and the central station receives the fire alarm. The Fire Department responds. What device was activated by the engineer? Why? What did the Fire Safety Director fail to do? Explain your answers.
163. A water flow switch activates, the speaker channels automatically open and the Building Evacuation Supervisor makes an announcement to the fire floor, the floor above the first floor and the floor below the first floor. On which floor did the Building Evacuation Supervisor determine that the fire alarm activated? To which floor did the building's two elevators recall? Explain your answers.
164. John Smith, an employee of Company P self-evacuates from the 64th floor on his first day at work. John reaches the final door in the emergency means of egress. When John pushes the panic bar on the door, it does not open. John pushes the bar on the door several seconds later and the door opens. Is the push bar on the door defective? In which part of the emergency means of egress is John at when he walks out the stairwell door and is standing on the sidewalk talking to the building's security officer? Explain your answers.
165. Jennifer, a member of the Fire Brigade responds to a fire alarm using a passenger elevator. The elevator doors close by simply pressing the "Door Close" button. Jennifer begins to ascend and then presses the "Call Cancel" button. Is Jennifer riding an elevator in Phase II, Phase I or in normal mode? Explain your answer.

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166. A tenant by the name of Frank suffers a laceration to a finger during a fire emergency evacuation. An ambulance crew has been dispatched to wait for people who are evacuating in case they need medical assistance. Frank approaches the emergency medical technicians and they treat him inside the ambulance. Frank is told by one of the EMTs, "You are ambulatory." Was Frank taken to the hospital? Explain your answer.
167. Ansul. Is this fire suppression system commonly found in hotels? Where? Why is this system used? Explain your answers.
168. Open door. Close door. Air. Open door. Close door. By what means is Peter evacuating the 30th floor? Explain your answer.
169. There is an inadvertent activation of a fire suppression system by a contractual company mechanic. The porters report to the location to clean up the affected area. When the porters reach the area they find nothing to clean up. The porters ask the mechanic and the engineer if they used a wet-vac and they both respond, "No." What did the fire suppression system contain? Explain your answer.
170. Mechanical Equipment Acceptance Number. In what part of a fire alarm system will this number appear? Why is it necessary? Explain your answers.
171. In a 400-Guest Room, 55-floor hotel, the Guest Rooms do not have drop-down ceilings. Bradley, a hotel guest, lies down on the Guest Room bed and looks up at the ceiling. Bradley sees neither horizontal branch lines nor sprinkler heads. Does the room have a plenum? Yes or no? Does the room have sprinkler heads? Yes or no? If yes, what is the name of the sprinkler heads and where are they located? Explain your answers.
172. The central station receives a signal from the Fire Alarm Control Panel when the Building Evacuation Supervisor is on duty and the system is "off-line". The signal is also received when the system is "on-line". The Fire Department does not respond to this signal when the system is "off-line" or when "on-line". Name the signal? Why will the Fire Department not respond? Explain your answers.
173. A fire alarm activates. The Fire Safety Director presses the Alarm Silence switch. Did the central station receive the fire alarm signal? Explain your answer.
174. Vincent is an avid smoker who "sneaks" a cigarette in a secluded area near a water flow switch on floor 29. Concurrently, Lynn "sneaks" a cigarette inside the telephone closet. The system is "on-line" and the Fire Department is activated by the central station. Vincent hears the Fire Safety Director's announcement. On what floor did the fire alarm activate? Was this alarm activation an unwarranted or an unnecessary alarm? Explain your answers.
175. Elevator recall activates in Bank "A", which services floors 1-16. A duct smoke detector activates on the 16th floor. Passenger elevator #6 is ascending and stops on floor 16, where the doors remain closed, and then descends to the Ground Level where the doors open automatically. On what floor did the fire alarm activate? Explain your answer.
176. A building has 200 "glass rod" manual pull stations, 70 Fire Safety/EAP Warden phones, 600 smoke detectors and 2,000 sprinkler heads. How many spare sprinkler heads should the building have in stock? How many spare glass rods should the building have in stock? Explain your answers.
177. Tim is sitting and eating. Suddenly every sprinkler head in the entire high-rise building activates simultaneously, but Tim does not get wet. The Fire Department responds to the building. Where is a Fire Safety Director likely to witness such a phenomenon happen? On what floor was Tim seated? Explain your answers.
178. A sprinkler system activates when two sprinkler heads of the soldered link type activate. The engineer determines that the fire is under control and informs the Fire Safety Director that the water control valves will be shut

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179. White, blue, red, green, orange. Are these the colors that would be found on Fire Department Connections? Yes or no? If no, name the devices on which these colors would be found? What is the significance of the colors? Explain your answers.
180. A firefighter opens the manual gate valve on a hose. The firefighter then extends the hose less than 100 feet allowing several folds to remain on the quick-release rack. The water flow switch activates and the fire alarm siren is heard throughout the fire floor, the floor above the fire floor and the floor below the fire floor. Which device activated the water flow switch? Explain your answer.
181. A key is inserted into the key switch. A toggle switch is lowered. What device in the fire alarm system has been reset? Explain your answer.
182. A vent is located two feet from a fire alarm sending device. Why is the proximity of the vent a serious concern for the Fire Safety Director when the system is "off-line"? What is the device? Explain your answers.
183. When the water temperature in a gravity tanks goes below the set degree Fahrenheit, a supervisory device will activate at the Fire Alarm Control Panel and the Fire Department will respond if the system is "on-line". True or false? Explain your answer.
184. Every month, on every shift, 12 times per year. 36 fire drills annually. Is this a fire drill requirement for office buildings or hotels? Yes or no? Explain your answers.
185. A fire alarm activates and an evacuation is ordered by the Fire Safety Director. The system is "on-line". As tenants are discharging into the main lobby of the building from Stairwell "C", the Fire Safety Director is informed that someone is having a heart attack immediately outside the revolving doors. The Fire Safety Director is certified in CPR/AED. What should the Fire Safety Director do? Explain your answer.
186. James, an employee of Company E observes smoke originating from a copier. One silver canister fire extinguisher is nearby, as is a red canister fire extinguisher with a label indicating the letters "A" and "B." Which of the two fire extinguishers should James use to extinguish the fire after unplugging the copier? Explain your answer.
187. A—B—C—D—K. What in a building is being referred to by these letters: Elevator banks? Stairwells? Standpipes? Other system? Explain your answer.
188. During an active fire situation, Kent, an employee of Company L becomes entrapped in an office with a solid glass window. Kent closes the door to the office but fears that it is only a matter of time before the fire penetrates the office. Kent decides to break the office's glass window that leads to a setback roof. Did Kent make the correct decision? Did he put the lives of the pedestrians and firefighters on the street at risk by breaking the glass? Explain your answer.
189. OS&Y. Describe these letters. Which part must be visible at all times: The O, S or the Y? Explain your answer.
190. The chief engineer feels that it is necessary to change out the sprinkler heads in the building because they have been in existence for over 50 years. There are 1,000 sprinkler heads in the building of which an inspection found that only one was loaded. The system is automatic wet. How many sprinkler heads should be changed out and replaced with new sprinkler heads? Explain your answer.

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191. The off-site assembly area in a fire emergency is required to be as far away as the height of the building, at a minimum. True or false? What is an off-site assembly area? Explain your answer.
192. "No reentry. Nearest reentry on the 7th and 10th floor". On which floor(s) is this sign posted? Is this sign posted on the occupant side or the stairwell side of a stairwell door? Explain your answers.
193. A fire fully consumes a floor in an office building. A post-fire investigation finds that the sprinkler heads were mixed. How was the fire able to spread rapidly even though the floor was fully sprinklered? Explain your answer.
194. The standpipe hose connections are in the stairwells. What organization decided that hose connections should be in the protected stairwell even though the stairwell door would have to remain open when the hoses are extended, thereby subjecting the stairwell to smoke contamination? Explain your answer.
195. What is the name of the system that the Building Evacuation Supervisor controls and that is used to transmit signals indicating a fire condition? Explain your answer.
196. A beam is broken. Name the device that would activate a fire alarm when the beam is broken? Where are these devices commonly installed and why? Explain your answers.
197. Name one instance when the Building Evacuation Supervisor may override the Fire Safety Director's decision to remain "on-line"? Will the Building Evacuation Supervisor be terminated for not following the directive given by the Fire Safety Director? Explain your answers.
198. "We did not receive the transmitter signal." Who is likely to be making this statement? What prompted the individual to make the statement? To who was the statement made? Explain your answers.
199. The candidate for the Certificate of Fitness Emergency Action Plan Director holds an F-25 for 366 5th Avenue on Staten Island and an F-58 for 200 Parliament Avenue on Long Island. At which of the two properties will the candidate take the F-59 practical on-site test? Explain your answer.
200. "Stop, drop and roll." Explain this concept.
- Q201. Management in a Group "B" property scheduled ABC Exterminators to visit the property on Saturday from 5p to 10p. The Fire Safety Director notified the FDNY Field Public Communications Unit to report the presence of the exterminators. What operation are the exterminators executing? Why did the Fire Safety Director shut off all sources of ignition in the area? Explain your answers.
- Q202. Notice of Violation Code 10-35 was issued to Building "A" by the FDNY. Which peripheral alarm-sending device was not the cause of the fire alarm activation? Why not? Explain your answers.
- Q203. Which city government agency approved the material used for the markings located in the means of egress in a Group "R-1" property? Explain your answers.
- Q204. Every two years the central station company requests a document from the FDNY to continue to provide services to their clients. What is the name of the document issued by the FDNY to the central station company? Explain your answer.
- Q205. The Fire Safety Director manually activated the fire alarm on the floor below the floor where the fire alarm automatically activated due to a smoke detector. Did the Fire Safety Director make a mistake by activating the fire alarm on the floor below instead of the floor above the floor of alarm activation? Explain your answer.

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- Q206. A covered mall is comprised of 51,000 sf. and Peter, the property manager, states that they do not need a Fire Safety and Evacuation Plan because they do not require to have on staff a Fire Safety Director Certificate of Fitness holder. John disagrees. Who is correct? Why? Explain your answers.
- Q207. Jake, a Fire Safety Director in Building "A", gets a part-time job in Building "B" and fails the practical on-site exam in Building "B". He is terminated from Building "A". Why was Jake terminated from Building "A"? Was the termination justified? Explain your answers.
- Q208. Paul is visiting the FDNY at 9 Metrotech Center to test to prove to the FDNY that he is a competent Fire Safety Director. What test is Paul taking and why? Explain your answers.
- Q209. A sprinkler head fuses = No water. A smoke detector activates = Water. What is the name of this sub-system? Explain your answer.
- Q210. Red tag/white disk. Where is the tag located and where is the disk located? What is the condition of the fire suppression system? Explain your answers.
- Q211. The hand wheels on the valves are colored green in Building "A" and red in Building "B". What type of fire suppression system is found in Building "A"? What is the color of the caps on the Fire Department Connections in Building "B"? Explain your answers.
- Q212. C of F S-12 and C of F S-14. Explain your answer.
- Q213. While conducting a visual inspection of the fire suppression system, the certificate of fitness holder informs the Licensed Master Plumber who also holds an S-12 to immediately change the loaded sprinkler head. What is a "loaded" sprinkler head? Is this Licensed Master Plumber authorized to change the sprinkler head? Explain your answers.
- Q214. The Certificate of Fitness holder Fire Guard checked the area twice: At 4:30 p.m. and at 5:00 p.m. What project concluded at 4:00 p.m.? Explain your answer.
- Q215. Building "X" has elevator lobby emergency signs that read: "In fire emergency, do not use elevator. Use exit stairs." In Building "Y" the signs read: "In case of fire use stairs unless otherwise instructed." Which of the two buildings was issued a Certificate of Occupancy in 1974? Explain your answer.
- Q216. A practical Fire Safety Director on-site exam is ended prematurely by the property manager because of the alarm activations. The FDNY Examiner informs Sam, the candidate, that he will be issued a failing grade on his first attempt at the on-site exam because the exam was ended prematurely. Sam disagrees with the Examiner. Who is correct? Why? Explain your answers.
- Q217. Within 10 seconds. Explain your answer.
- Q218. A fire on the 3rd Floor of a 50-story hotel. What people-movement response will the Fire Safety Director activate: Partial Evacuation or Evacuation? Explain your answer.
- Q219. "In a fire emergency on the 30th Floor of a multi-tenant Group "B" property, the Fire Safety Director will In-Building Relocate the occupants to a minimum of three floors below the fire floor to the next re-entry floor." In a hotel, the above quoted statement would end after which word? Explain your answer.
- Q220. Jose, a Certificate of Fitness holder Fire Guard Citywide and Tom, a Certificate of Fitness holder Supervisor of Fire Alarm Systems S-95 volunteer to be assigned the title of Impairment Coordinator in a motel. How many rooms

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are there in the motel? Who should be assigned the title of Impairment Coordinator, Jose or Tom? Why? Explain your answers.

Q221. George, a Building Engineer who is a Certificate of Fitness holder S-12 removed a 3-foot section of pipe from a Branch Line on the 5th Floor due to reconfigured office walls. George is reprimanded by the property manager for conducting this work. Did George do something wrong? Should he have been reprimanded? Explain your answers.

Q222. One year ago Debbie, the FSD, conducted the test of the strobe lights. Today she is testing them again. Susan, the Building Evacuation Supervisor (BES) informs Debbie that she should have tested the strobe lights six months ago. Is Susan correct? What audio device is Debbie also testing? Is there a Front Desk in this property? Explain your answers.

Q223. Three hours into her shift at 11:00 a.m., the FSD in a Group "B" property takes ill and must be hospitalized. One of the BESs who happens to be doing security guard work takes over. An FDNY Inspector visits the property at 3:30 p.m. and issues the property manager a Notice of Violation. Why was the violation issued? Until what time did the BES work? Explain your answers.

Q224. All the smoke and heat detectors were disabled when the elevators recalled in response to the activation of an automatic fire alarm. The strobe lights did not activate on the floors in alarm. What device activated the fire alarm? Why did the strobe lights not activate? Explain your answers.

Q225. A siren activates in the entire building due to an emergency. A voice is heard over the public announcement system. There is no controlled movement of people. The strobe lights do not activate. What Plan is being executed? Where is the emergency happening? Explain your answers.

Q226. The temperature rises at a rapid rate in an enclosed elevator lobby on the highest floor in the building (25th Floor) and there are two elevator banks. Joseph opens a valve and is attempting to extinguish the fire. There is no sprinkler system. The Supervisor of Fire Alarm Systems receives audio/visual signals at the Fire Alarm Control Panel indicating a fire alarm from the 25th Floor. What alarm-sending device activated the fire alarm? Why did the elevators serving the 4th Floor did not recall? What type of fire suppression system is in the building? Explain your answers.

Q227. Thirty days ago the Refrigeration Operating Engineer conducted a test of the building's Refrigeration System. Among other items, he tested the Flaring and Treatment system. How many pounds of Freon does the Refrigeration System hold? Explain your answer.

Q228. The General Manager of the Garden Hotel is asked by an FDNY Inspector for a BIC. The GM cannot produce one. What document has not been approved for the Garden Hotel? Will the GM be issued a violation? How many days does the GM have to the document approved? Explain your answers.

Q229. In 2011, a Group "R-1" property was required to have an approved Plan. What was the name of the Plan: "Fire Safety and Emergency Action Plan", "Fire Safety and Evacuation Plan", "Residential Fire Safety Guide" or "Emergency Action Plan"? Explain your answer.

Q230. A Certificate of Qualification holder Licensed Master Fire Suppression Piping Contractor is required to service a commercial cooking system. Who is required to clean the system's smoke exhaust? Explain your answer.

Q231. The activation of the fire alarm was not acknowledged by the FSD at the Fire Alarm Control Panel (FACP) when there were 400 people in the entire Group "B" property. Who answered the telephone call from the Central Station operator? Why did the Central Station Operator call the building? Explain your answers.

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- Q232. Manual Fire Alarm Pull Stations of the single action type were constantly activated by foreign hotel guests who did not know their purpose. David, the General Manager invested in plastic covers to discourage unnecessary activation of manual pull stations. He informed the staff that they now have double-action manual pull stations. Maria, a member of the Fire Brigade, disagreed. What type of manual pull stations is Maria claiming to have in the hotel? Explain your answer.
- Q233. N.O.V. What is the name of the city agency the Fire Safety Director will visit for a hearing? Peter says the FDNY, Jamie says the Environmental Control Board and Martha says OSHA. Who is correct? Explain your answer.
- Q234. John did not have to walk more than 30 feet from his work area to reach a fire extinguisher to fight a fire. In what area of the property does John work? What class of fire did John attempt to extinguish? What activity caused the fire? Explain your answers.
- Q235. There is no one on the floor for one hour prior to the commencement of a special project in a Group "B" property. What is the name of the project? Did the FSD disable the manual pull stations on the floor? Explain your answers.
- Q236. A strobe light is tested by a Certificate of Fitness Holder. What is the title of the individual who conducted the test? Why did the individual contact the fire alarm service company and not the central station after concluding the test? Explain your answers.
- Q237. A fire alarm nor a supervisory signal has activated in a Group "B" property's fire alarm system. The Central Station operator calls the property and speaks with the Building Evacuation Supervisor (BES). What is the message that was given to the BES by the Central Station operator? How many people were in the property at the time of the call? Explain your answers.
- Q238. A team of firefighters enters a high-rise hotel in response to a fire alarm activation. They immediately respond to and reach the fire floor and successfully rescue the two trapped tourists. What is the name of the truck they used to get to the hotel? Why? Explain your answers.
- Q239. A fire alarm activated in a Group "B" property and the Fire Safety Director was required to call the fire alarm maintenance company to get the system to be fully operational again by replacing the device that activated the alarm. What generic peripheral alarm-sending device activated? What is the name of this particular device? What did it detect? Explain your answers.
- Q240. The property manager, who is not a certificate of fitness holder and who has an office on the 5th Floor, was immediately aware of a situation at the Fire Alarm Control Panel affecting the 37th Floor. How did the property manager know of the situation when no one communicated anything to her in her office? Explain your answer.
- Q241. The property manager informed the facilities director that he has until July 1, 2013 to remove the fire suppression system on the 24th Floor. What fire suppression chemical is being used in this system? Do people work in this area on a regular basis? Explain your answers.
- Q242. In a commercial high-rise building, the manual pull stations have a one-inch-wide, diagonal white line from the top right to the bottom left. Stephen, the Fire Safety Director informed Miguel, the technician from the fire alarm service company, that the fire alarm system is connected to a central station. Miguel informs Stephen that the manual pull stations have a problem and all of them must be corrected. Stephen disagrees. Who is correct? What is the problem, if any? Explain your answers.
- Q243. Audio/visual signals are received at a Group "B" property's Fire Alarm Control Panel. The central station does not call the property. The Fire Department does not respond to the property. There is no Certificate of Fitness

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holder FSD working at the time the signal was received. What was the signal? Why did the FDNY not respond to the property? Who received the signal? Explain your answers.

Q244. The Standpipe system in a commercial high-rise on 58th Street has multiple hoses stored in a cabinet in the main lobby. Are there hoses connected to the standpipe hose outlets located in the stairwell? Why is this system not a Class II system? Explain your answers.

Q245. The Fire Safety Director notified the FDNY's Field Public Communications Unit and the property occupants on the 10th Floor. What scheduled project did the FSD inform these groups about? Why was this project necessary? Explain your answers.

Q246. A fire alarm activated in a place of assembly located inside a hotel. At the time of the alarm activation there were 400 guests in the hotel. At least how many guests could have been in the area where the alarm activated? What document was issued to hotel ownership after a Fire Department inspection one year ago? What city agency issued the document? Explain your answers.

Q247. K. Where is the potential fire? How far away is the fire? Explain your answers.

Q248. There are no Trouble Signals on the Fire Alarm Control Panel and the FSD did not disable any peripheral alarm-sending devices. There is smoke in an area on the 30th Floor. The area smoke detector does not activate and one person dies from smoke inhalation. Is this property a hotel/motel or a commercial high-rise building? What fire safety/life safety procedure did management fail to do? Explain your answers.

Q249. Today, drills are being conducted. What document did the FDNY approve six months ago via the issuance of a Letter of Approval? Explain your answer.

Q250. Of the following, which does the Certificate of Fitness F-58 supersede: Supervision of Fire Alarm Systems S-95, Fire Safety Coordinator F-24, Emergency Action Plan Director F-59, or Sprinkler City-wide S-12? Explain your answer.

