

Seattle Fire Department
Fire Alarm Test Questions

1. What is the maximum dB allowed? 120
2. What is the maximum height of a pull station? 54"
3. What is the minimum dB rating in an equipment room?
4. All exit doors must do what in fire alarm?
5. What is the maximum distance a smoke detector may be mounted from the ceiling peak?
6. How far are line type heat detectors from the ceiling?
7. What is stratification?
8. How long when primary power fails should the secondary automatically start?
9. How long must the batteries take to recharge?
10. How does a photoelectric smoke detector work?
11. How long is a system required to operate on battery back up?
12. How long is a system required to operate on battery back up when it is monitored?
13. A smoke detector must be calibrated every _____?
14. Emergency voice system must operate in a fire alarm state for _____?
15. Smoke/Heat detector spacing shall not exceed _____?
16. Household smoke detectors should be placed _____?
17. The spacing for heat detectors on a smooth ceiling is _____?
18. On a heat detector what is the rate of rise?
19. What is the fixed temperature of a heat detector?
20. How many interconnected devices can you get on a supervised connection?
21. How many interconnected devices can you get on an unsupervised connection?
22. How many candela is needed in a hearing impaired sleeping room 14'x16' room with ceiling <24'?
23. How long must a smoke detector take to alarm?
24. How long must a sprinkler flow switch take to alarm in Seattle?
25. Who is the Authority Having Jurisdiction?
26. How many devices are tested during a confidence test?
27. Where do you test a wet fire sprinkler system?
28. Where do you test a dry fire sprinkler system?
29. Who is responsible for having the fire alarm test done?
30. The fire chief may change the fire code to what standards?
31. How many times must a trouble signal sound and how long?
32. Wiring a fire alarm panel falls under which NFPA code?
33. How much is the Seattle fire alarm re-test fee?
34. When must a new employee obtain a fire alarm license?
35. What is the maximum distance between manual pull stations?
36. What is the minimum height of a strobe?
37. When is legal to run high voltage and low voltage in the same space?
38. When must a heat detector be tested for proper temperature setting?
39. What SFD code relates to fire equipment testing?
40. How long must test forms be kept?

Seattle Fire Department
Fire Alarm Test Answers

1. 120 4-3.1.2 NFPA 72 1999
2. 54" 2-8.1
3. 85 4-3.1.4
4. Unlock 3-9.7.2
5. 3' 2-3.4.7
6. 20" 2-2.2.2
7. Prevents smoke from getting to the detector Definitions
8. 30 Seconds 1-5.2.6
9. <48 Hours 1-5.2.9.2.1
10. Light scatter Def.
11. 24 Hours 1-5.2.6
12. 60 Hours 1-5.2.6
13. 5 Years 7-3.2.1
14. 2 Hours 1-5.2.6
15. 50" ^{Heart} ^{Smoke} 30' 2-2.1.2
16. Out side sleeping areas A-8-1.2.1
17. .7 times the listed spacing
18. 15 degrees in 60 seconds 7-2.2 #13
19. 20 degrees above maximum expected temperature at the ceiling 2-2.3
20. 64 Devices 8-1.4.4
21. 18 Devices 8-1.4.4
22. 177 cd 4-4.4.3.2 *within 15' of the pillow*
23. 1 minute 3-8-3.2.3.1
24. 60 seconds SFD code
25. Seattle Fire Department
26. 100% SFD Code
27. Inspector test SFD code
28. At the bypass SFD Code
29. Owner SFD Code
30. Nationally Recognized Standards SFD Code
31. Once every ten seconds a least for 1/2 second 1-5.4.6
32. NFPA 70 (The NEC)
33. Nothing -one retest for free SFD Code
34. 90 Days SFD Code
35. 200' 2-8.2.4
36. 80" 4-3.5.1
37. Fire alarm panel NEC 700
38. 15 Years 7-2.2
39. 111.B SFD Code
40. 2 years

41. What sections of the fire alarm system completion form must be filled out prior to final inspection?
42. How many revolutions on a valve handle will activate the tamper switch?
43. What does DACT stand for?
44. What is the radioactive material in a smoke detector for?
45. Where do you test a pre action sprinkler system?
46. How high is a high-rise?
47. When replacing a fire alarm panel, how many devices must be tested?
48. When do you not need to have a smoke detector in a space?
49. What type of batteries may not be used on a fire alarm system?
50. What type of smoke is more likely to set off a photoelectric smoke detector?
51. What type of smoke is more likely to set off an ion smoke detector?
52. When mounted on a wall, a smoke detector can be no lower below the ceiling than what?
53. How many feet from a door must a pull station be?
54. How many batteries are required when there are two generators?
55. What is a fire watch?
56. What is the dB required at the pillow head?
57. What is a coded fire alarm system?
58. How many smoke detectors can you have on an unsupervised interconnected system?
59. How many smoke detectors can you have on a supervised interconnected system?
60. How far from bends do you put duct detectors?
61. How far to air supply from duct detector?
62. Where do you locate a duct detector?
63. What is the minimum amount of pull stations per floor?
64. What is the maximum distance from a door a smoke detector must be?
65. How do you test a smoke detector?
66. What is the maximum distance for placing a household smoke detector?
67. What is the battery load test for a household fire alarm system?
68. On an analog fire alarm system what happens when the initiating circuit is shorted?
69. What should you do with leaks in duct detectors?
70. What is the operating temperature of a fire alarm panel?
71. What is the operating temperature of a smoke detector?
72. What is minimum a battery can operate on before replacement?
73. What is the maximum CFM a fire alarm panel can operate?
74. Who do you notify when a system is down?
75. How long is the Seattle Fire Department certification good for?
76. What is the minimum amount of smoke detectors per zone on a dual (cross) zoned panel?
77. What must be done before calling the fire department for a final inspection?
78. What types of batteries are acceptable?
79. What part(s) of a certificate of completion is to be filled out after the acceptance test?
80. How long after a trouble is detected on the panel must it indicate trouble?
81. How long after a trouble is cleared must the panel restore?
82. In a 20x20-foot room what is the maximum distance the strobe can be from the pillow head?

41. 1 2 4-10 1-6.2.1
42. within 2 turns 2-9.1.1
43. Digital Alarm Communications Transmitter Def.
44. Attract Ion particles Def.
45. At the bypass SFD Code
46. Above 75' SFD Code
47. 10% 7-1-6.2.1
48. Unoccupied and non combustible
49. Dry cell 6-7.4.1
50. Visible Smoke Def.
51. Invisible Smoke Def.
52. 12" 2-3.4.3.1
53. 5' 2-8.2.2
54. None
55. Walk through every 15 minutes on a building with sleeping rooms and 30 minutes with out sleeping rooms SFD Code
56. 60 dB SFD Code
57. At least 3 complete rounds and 3 impulses. 1-5.4.2.1
58. 12 8-4.4.4
59. 42 8-4.4.4
60. 6 duct diameters
61. No closer than 3' to the air supply
62. In return air
63. At least one
64. 5'
65. smoke or aerosol
66. 50'
67. 24 hrs standby and 4 minute load
68. alarm
69. be sealed
70. 32 and 120 degrees 1-5.5.1
71. 32 and 120 degrees 2-3.6.1.1
72. 85% 1-5.5.1
73. less than 15,000 CFM
74. The fire chief
75. 3 years
76. one in each zone 7-2.2
77. complete and pre-test system
78. sealed lead acid and nickel cadmium
79. part 3
80. 200 seconds
81. 200 seconds
82. 16'

83. What is the maximum distance between strobes?
84. What is the flash sequence of a strobe?
85. What is the maximum candela of a strobe?
86. What is the minimum dB's of a horn?
87. How far is a strobe to be located from the end of a corridor?
88. What is the minimum dB's for a 20x20 room?
89. How often must a trouble signal sound?
90. How long dose it take to charge the batteries?
91. What is the minimum time a generator must power a fire alarm panel?
92. What is the maximum amount of flow switches on a single zone?
93. All HVAC and door closures shall be what?
94. How long before an apprentice must get a license?
95. What is the maximum distance a beam detector must be located from the ceiling?
96. What causes a trouble on a beam detector?
97. What causes an alarm on a beam detector?
98. What type of building is required to have a quarterly fire alarm test?
99. Dose a DACT need to be electrically supervised?
100. What dose an open circuit cause a fire alarm panel to do?
101. How much over current protection is required on the batteries?
102. How often is the emergency voice communications to be tested?
103. How much time is a positive alarm sequence to be acknowledged or alarm will sound?
104. Primary power failure on a DACT will not be transmitted until _____% depleted but not less than _____%
105. Spot type smoke detectors on a sidewall shall be mounted at least _____ below the ceiling.
106. Room and water temperature detectors will reset above what temperature?
107. What can an area smoke detector control?
108. What is the hourly rate for Seattle Fire Department re-inspection?
109. What section in NFPA 70 covers fire alarms?
110. Seattle certificate allows you to A. Design B. Install C. Maintain D. B&C
111. When is an alarm signal silence permitted?
112. Every Fire Alarm System shall include what documentation on acceptance?
113. What is considered to be a slopped ceiling?
114. How much is fee for a Seattle Fire Department inspection of a fire alarm system?
115. How shall a smoke detector be tested?

- 3 1/2 1 1/2 Feet
83. 100'
84. 3 times a second or once in 3 seconds
85. 1000 cd's
86. 75 dB's at 10'
87. 15'
88. 15 dB's above ambient
89. once every 10 seconds
90. 48 hours
91. 12 hours under full load
92. 5 NFPA 3-8.3.2.4.2
93. supervised
94. 90 days
95. 18"
96. an obstruction
97. smoke/obscure
98. high-rise
99. yes
100. trouble
101. not less than 150% not more than 250% 1-5.2.9.3
102. Annually 7-3.2
103. 15 sec 1-5.4.11.1.1
104. 25% 50% 1-5.8.7.3
105. 4 inches 2-3.4.3.1
106. 40 degrees 2-9.4&5
107. doors and dampers 2-10.4.1
108. \$45
109. 760
110. D
111. Only by the Fire Department
112. Owner manual and installation instructions, Record Drawings and a copy of the site specific software.
113. greater than slope than 1 in 8
114. \$440.00 plus \$4.40 per device > 6 devices
115. Smoke Chamber Test-magnets **not** allowed per local and national codes.
- only 16

304
0650

FSR 1131 Andon

Pull Stations shall be mounted at what height
3 1/2 - 4 1/2 feet

Multiple wire or post connection are provided on
Devices because

to allow device to be supervised

At what interval do you send heat detectors in for sample
tes.
15 years

When a fire Alarm is combined with another type
of Alarm what can be shared

wiring
strobe
Alarm

When testing + initiating devices an alarm verification
signal must be received within _____ seconds
15?

A panel trouble silence switch is allowed only if
operated by key
panel is locked
it is secured for - authorized use only
All the above

Moly

364
0650

ESA 1131 Andca