Practice quiz: NICET Inspection and Testing of Fire Alarm Systems Level I

10 questions. The answer key is on page 2.

Name _____ Date _____

1. **You will test elevator recall in a building with two elevators. Besides the supervising station and the building manager, who should know about the test in advance?**
   A. The sprinkler contractor who services the building
   B. The maker of the fire alarm control unit
   C. The elevator mechanic who will control the cars
   D. The utility company that supplies the building's power

2. **While inspecting a duct smoke detector, you find its sampling tube lying loose inside the housing, no longer through the duct wall. How should it be reported?**
   A. As a deficiency, since it cannot sample the duct's air
   B. As acceptable, since the detector head is clean and undamaged
   C. As acceptable, since the air handler still shuts down on alarm
   D. As a cosmetic note for the next routine service visit

3. **A notification booster power supply in a closet shows its AC power light off and its trouble light on. The main panel shows normal. What should you report?**
   A. Nothing, since the main panel is the display that counts
   B. Nothing, since the booster's batteries will carry the appliances
   C. The closet door, which should be left open for ventilation
   D. The booster's trouble, and that it does not show at the main panel

4. **A conference room was split into two offices. The system's documents call for visible notification in every occupied room on this floor. The drawings, made before the remodel, show one horn-strobe in the old room. You find it in one office and nothing in the other. What should be reported?**
   A. Nothing, since the appliance count matches the drawings
   B. The office with no appliance, since it has no visible signal
   C. Nothing, if the horn can be heard through the wall
   D. The horn-strobe that remains, as being mounted in the wrong office

5. **After a smoke detector test, you press reset, and the panel goes straight back into alarm for the same detector. What is the most likely cause?**
   A. The panel's batteries are too weak to complete a reset
   B. Test aerosol is still inside the detector's sensing chamber
   C. The detector's address was changed during the test
   D. The station has not yet taken the account out of test

6. **For the secondary power test, you have switched off the fire alarm breaker, and the panel shows a primary power trouble. Which step completes this test before you switch the breaker back on?**
   A. Disconnect the batteries to confirm the panel shuts down cleanly
   B. Reset the panel to clear the trouble before restoring power
   C. Call the utility to confirm the building's supply is still on
   D. Put a device into alarm to confirm the panel works on batteries

7. **A technician holds a test magnet to a smoke detector, and the panel goes into alarm. Why is this not a full functional test of the detector?**
   A. No smoke entered the chamber, so smoke sensing was not proved
   B. Magnets can erase the detector's programmed address on the loop
   C. The panel logs a magnet test as a trouble rather than an alarm
   D. A magnet test needs the supervising station to be online first

8. **During an alarm test, one horn in a corridor of eight is silent while the rest sound. The panel shows no trouble. What should be recorded?**
   A. A pass, since the corridor is still covered by the others
   B. A pass, since the panel shows no trouble on that circuit
   C. A failed appliance, to be checked and repaired
   D. A panel fault, since it should have shown the horn as missing

9. **You operate a lobby smoke detector on floor 3 during a recall test. The panel shows the alarm, but the elevator mechanic reports that the cars did not move. What should you record?**
   A. A pass, since the detector and the panel both went into alarm
   B. A pass, since the elevator is the elevator contractor's concern
   C. Nothing yet; repeat the test until the cars move on their own
   D. A failed recall interface, with the elevator mechanic's report noted

10. **A failed heat detector is a restorable rate-of-rise and fixed-temperature type rated 135°F, listed for the panel. Which replacement is acceptable?**
    A. The same type and rating, listed for use with that panel
    B. A 190°F fixed-temperature detector that fits the same base
    C. A smoke detector, since it will respond sooner to a fire
    D. Any heat detector the supplier has on hand that day

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Answer key

NICET Inspection and Testing of Fire Alarm Systems Level I. One line of why for each answer.

1. **C** The elevator mechanic controls the cars during the test and confirms how they respond, so the mechanic must be told and usually present.
2. **A** A duct detector senses smoke in the air drawn through its sampling tube; with the tube out of the duct, smoke in the airstream may never reach it.
3. **D** A booster that has lost AC power is in trouble, and the main panel should know about it.
4. **B** The documents call for a visible signal in each occupied room, and the new office has none, so it is a deficiency for the owner to correct.
5. **B** A detector still sensing aerosol is still in alarm, so the panel returns to alarm until the chamber clears.
6. **D** With primary power off, an alarm proves the panel and its appliances can work on secondary power, which is the point of the test.
7. **A** A functional test must show that smoke can enter the chamber and that the detector responds; a magnet skips that step, so a capped or clogged detector could still pass.
8. **C** An appliance that does not sound in alarm has failed, whatever the panel shows; supervision watches the wiring, and a dead appliance on intact wiring may not give a trouble.
9. **D** The interface test proves that the fire alarm output makes the elevators respond; cars that do not move mean the interface failed, and the mechanic's observation belongs in the record.
10. **A** A replacement must match the type and temperature rating and be listed for use with the panel.

Full explanations

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