Practice quiz: NICET Fire Alarm Systems Level III

10 questions. The answer key is on page 2.

Name _____ Date _____

1. **During acceptance, the supervisor listens at the far end of a corridor and finds the horns hard to hear over the HVAC noise. The circuit tested as working. What is the best next step?**
   A. Refer the grille to the engineer of record and reduce the HVAC noise by removing it at that spot
   B. Record it, have the designer evaluate sound levels, and correct the notification if needed
   C. Replace all of the horns in the whole building with a much louder model than now
   D. Ignore it, since the circuit tested as working and working is the same as audible

2. **The fire alarm drawings and the architectural drawings disagree about the location of a wall that holds a manual station. The crew has not yet installed the station. What should the supervisor do?**
   A. Send an RFI to the designer, hold that station and carry on with other work
   B. Put it where the fire alarm drawings show it and tell the designer later
   C. Install it at the architectural location and update the fire alarm drawings after the work is done
   D. Install it midway between the two locations, since that is fair to both drawings

3. **A record drawing set has hand-marked changes in pencil that cannot be read. What should the supervisor do?**
   A. Have the changes inked in clearly, check them in the field and reissue the set
   B. Issue it as it is, since the changes are shown even if they are drawn poorly
   C. Scan it at a lower resolution so the pencil marks look much darker on the page
   D. Redraw it from the approved design and then discard all of the field markups

4. **A hospital wing is due for horn testing. Patients rest there. What should the supervisor do?**
   A. Test during visiting hours so that more people can see the system work as intended
   B. Coordinate times and procedures with facility staff and limit the disruption to patients
   C. Skip the notification test for that wing, since it would disturb patients who are resting
   D. Run the test unannounced to see how staff react in a real emergency situation

5. **A panel shows an open circuit trouble on a notification circuit. The building is occupied. What is the first priority?**
   A. Silence the trouble buzzer and file a note for the next quarterly visit by the service team
   B. Find which devices are not working, tell the owner, and arrange interim measures and repair
   C. Disconnect the circuit entirely until the repair visit is scheduled
   D. Test the circuit by pressing the system reset button repeatedly until it clears

6. **A report lists five failed devices and the technician's note says "to be fixed". What should the supervisor add before issuing it?**
   A. For each device, the address, location, what was found, what was done and what remains
   B. The number of failed devices, the date of the visit and the technician's initials
   C. The panel manufacturer's contact details, so the owner can call about the failed devices
   D. A request that the owner not share the report with anyone outside the building staff

7. **A room's detector layout meets the stated spacing, but a tall storage rack placed after design blocks airflow to two detectors. What should the reviewer ask?**
   A. Whether the rack is painted a light color that matches the finish of the room walls
   B. Nothing, since the layout matched the design on the day that it was drawn
   C. Whether the rack was bought from the building owner's preferred supplier or another one
   D. Whether the layout accounts for the rack as built or needs a coverage revision

8. **A calculation lists a standby load of 0.25 A and an alarm load of 1.20 A. The stated criteria are 24 hours of standby, 5 minutes of alarm and a 20 percent margin. What is the required capacity?**
   A. About 6.1 Ah
   B. About 7.6 Ah
   C. About 7.3 Ah
   D. About 8.6 Ah

9. **A reviewer checks a notification circuit: 12 AWG at 1.93 ohm per 1,000 ft, 1.0 A at the far end and a 500 ft one-way run. The panel supplies 20.4 V at end of battery. What is the voltage at the last appliance?**
   A. About 19.4 V
   B. About 20.4 V
   C. About 18.5 V
   D. About 22.1 V

10. **The supplier says the panel will arrive two weeks late. Rough-in is on schedule. What should the supervisor do?**
    A. Tell the GC about the delay at the next weekly meeting and keep the schedule as planned
    B. Stop all work on the project until the panel arrives, whatever the cost to the schedule
    C. Install a temporary panel from another job, with the owner told once the job is done
    D. Tell the GC and owner now, find other work to do, and update the schedule in writing

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Answer key

NICET Fire Alarm Systems Level III. One line of why for each answer.

1. **B** A working circuit is not the same as adequate notification, so the observation is recorded and evaluated against the design criteria.
2. **A** A drawing conflict is resolved by the designer, so the supervisor sends an RFI and holds the affected work only.
3. **A** Record drawings must be legible and accurate.
4. **B** Testing is coordinated with the facility so it can be done safely and with limited disruption.
5. **B** An open notification circuit means some appliances may not sound, so the owner is told, interim measures are arranged and repairs begin.
6. **A** A report is useful when each deficiency can be found and fixed, so it lists address, location, condition and action.
7. **D** A change after design can affect coverage, so the reviewer asks if the layout still works with the rack.
8. **C** Standby is 0.25 A times 24 h, which is 6.0 Ah.
9. **C** The loop length is 1,000 ft, so the loop resistance is 1.93 ohm.
10. **D** A delay is reported early, with a plan to keep other work moving, and written into the schedule.

Full explanations

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