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API SIEE - Source Inspector Electrical Equipment

1. What is the primary function of a junction box in an electrical system?

- A) To house circuit breakers
- B) To provide a point where wires can be connected
- C) To generate electricity
- D) To reduce electrical resistance

Answer: B

Explanation: A junction box is primarily used to connect wires together safely within an electrical system, providing a secure enclosure for the connections.

2. Which of the following materials is most commonly used for manufacturing junction boxes?

- A) Wood
- B) Plastic
- C) Aluminum
- D) Steel

Answer: B

Explanation: Junction boxes are commonly made from plastic due to its insulating properties, durability, and cost-effectiveness. Metal boxes, like steel or aluminum, are also used in specific applications.

3. According to NEC (National Electrical Code) standards, what is the minimum cubic inch capacity for a junction box containing three 14 AWG conductors?

- A) 12 cubic inches
- B) 6 cubic inches
- C) 8 cubic inches
- D) 10 cubic inches

Answer: A

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API Source Inspector Electrical Equipment Sample Questions (Q56-Q61):

NEW QUESTION # 56

According to ANSI/IEEE C37.20.2, wiring across a hinge shall be all of the following except:

- A. a formed loop as it crosses the hinge and secured to the equipment at both ends in such a manner that negligible strain is transmitted to wire beyond the securements.
- B. No. 14 AWG and larger, and C or D stranding.
- C. sufficiently flexible to withstand repeated door movement without sustaining damage to wire strands or insulation.
- D. installed in a flexible non-metallic conduit with a separate ground terminated at the door and at the switchgear ground bus and chosen per the minimum wire size table.

Answer: D

Explanation:

The correct answer is B because ANSI and IEEE requirements for control wiring that passes across hinged doors or panels in metal-enclosed switchgear emphasize mechanical flexibility, proper looping, securement, and suitable conductor stranding, not installation in a flexible non-metallic conduit with a separate grounding conductor as described in option B. The standard intent is to ensure that repeated opening and closing of doors does not damage the conductor strands or insulation, and that stress is not transmitted beyond the supported points. That is why options A and C reflect accepted requirements: the wiring must be flexible enough for repeated motion and arranged in a formed loop with proper securement. Option D is also consistent with switchgear wiring practice, where conductor size and stranding class are specified to provide durability under mechanical movement.

Option B adds conditions that are not the stated requirement for wiring across a hinge in ANSI/IEEE C37.20.2.

In source inspection, this distinction matters because inspectors must verify wiring methods against the actual standard requirement rather than accept added but non-required installation details.

NEW QUESTION # 57

According to NETA, for low voltage cables a visual inspection must verify that:

- A. color codes comply with IEEE requirements.
- B. connections are in accordance with the single-line diagram.
- C. the shield on power cables is properly grounded.
- D. all cables are connected to terminals via ring tongue lugs.

Answer: B

Explanation:

The correct answer is C because the API guide repeatedly emphasizes that source inspection and surveillance of electrical equipment must verify installed wiring and connections against the governing project drawings.

In the guide's inspection activities, items such as "One-line Wiring Diagram Review" and confirmation that components conform to drawings and specifications are specifically identified as part of the inspection checklist. For electrical equipment inspections more broadly, the guide also requires inspectors to compare equipment and circuitry with drawings and verify that electrical details conform to those drawings.

The other options are weaker. The guide discusses low-voltage cable identification and notes that NEC mandates only certain conductor colors for neutral and protective grounding, not a blanket requirement that color codes must comply with IEEE. Also, cable shields are discussed in the context of MV/HV cable construction through conductor screens and shielding-related design features, not as a universal low-voltage visual inspection criterion. Finally, the guide does not require all terminations to use ring tongue lugs.

Therefore, verifying that cable connections match the single-line diagram is the best verified answer.

NEW QUESTION # 58

According to the referenced API standard in the guide, special purpose induction motors covered by API STD

541 are:

- A. 1000 kW and larger only
- **B. 375 kW (500 hp) and larger**
- C. 250 hp and larger
- D. 100 hp and larger

Answer: B

NEW QUESTION # 59

A qualified person, as defined by NFPA 70E, is a person:

- **A. who has demonstrated skills related to the operation of electrical equipment and received safety training to identify and avoid the hazards.**
- B. designated by the authority having jurisdiction as an electrician, electrical technician, electrical supervisor or electrical engineer.
- C. with a 2 year associate degree in electrical technology or electrical engineer or the IBEW equivalent.
- D. who has taken the national electrical safety certification and received the certificate.

Answer: A

Explanation:

The correct answer is D. Under NFPA 70E, a qualified person is not defined by job title, academic degree, union equivalency, or simply being appointed by an authority. Instead, the person must have demonstrated skills and knowledge related to the construction and operation of electrical equipment and installations, and must also have received safety training to identify and avoid the hazards involved. This definition is especially important in source inspection and quality surveillance because inspectors may observe energized testing, equipment verification, or manufacturing activities where electrical hazards are present. In such cases, qualification is based on competence plus hazard-recognition training, not on position alone.

Options A, B, and C are incorrect because they describe credentials, titles, or formal recognition that may support a person's background, but they do not satisfy the full NFPA 70E definition by themselves. A source inspector working around electrical equipment must understand that only personnel who can both perform the task competently and recognize the associated electrical risks are considered qualified. That is why option D is the best and verified answer.

NEW QUESTION # 60

Which statement BEST reflects the guide's discussion of process packaged skids?

- **A. Most electrical and control equipment is often located off-skid in an unclassified location**
- B. Hazardous-area certification is not required for field devices
- C. Process skids cannot include instrumentation wiring
- D. All electrical and control equipment is normally mounted directly on the skid

Answer: A

NEW QUESTION # 61

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