

API-SIEE Actual Test Answers & Latest API-SIEE Dumps Files

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 API-SIEE Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • Examination Methods, Tools and Equipment: Covers the inspection techniques used in the field, including dimensional, visual, electrical testing, functional testing, and coatings inspections.
Topic 2	<ul style="list-style-type: none"> • Liquid-Immersed Transformers: Covers the design, construction, and applicable industry codes and standards for liquid-immersed transformers.
Topic 3	<ul style="list-style-type: none"> • Electrical Induction Motors: Covers design and construction standards, materials of construction, and motor testing requirements for electrical induction motors.
Topic 4	<ul style="list-style-type: none"> • Equipment Risk Assessment: Focuses on developing inspection project plans, inspection and test plans, and reviewing reports to assess equipment risk.

Topic 5	<ul style="list-style-type: none"> • Source Inspection Management Program: Addresses the organizational framework and management practices that govern source inspection programs.
Topic 6	<ul style="list-style-type: none"> • Electrical Skid Mounted Equipment: Addresses inspection of skid-mounted assemblies including hazardous location equipment, grounding, cable systems, control wiring, and applicable codes.
Topic 7	<ul style="list-style-type: none"> • Motor Control Centers (Low to Medium Voltage): Covers design standards, materials, enclosure types, breakers, amp capacity, cable entry, and grounding components for MCCs.
Topic 8	<ul style="list-style-type: none"> • Source Inspection Performance: Covers inspector conduct, safety, project document review, report writing, and handling nonconformances and deviations during inspections.
Topic 9	<ul style="list-style-type: none"> • Terms and Definitions: Covers the foundational terminology and definitions used throughout electrical source inspection work.

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API Source Inspector Electrical Equipment Sample Questions (Q47-Q52):

NEW QUESTION # 47

Circuit breakers over 1000 V equipped with stored energy mechanisms shall perform which of the following functions?

- A. Indicate whether power is available to the circuit breaker
- **B. Prevent the release of the stored energy unless the mechanism has been fully charged**
- C. Identify the presence of fault current flow through the circuit breaker
- D. Locate the position of the charging mechanism

Answer: B

Explanation:

The correct answer is D. For medium-voltage circuit breakers over 1000 V that use a stored-energy operating mechanism, a key safety and functional requirement is that the mechanism must not release the stored energy until it has been fully charged. This prevents incomplete closing or tripping operations, avoids unreliable breaker performance, and reduces the risk of mechanical damage or unsafe operating conditions. In other words, the breaker mechanism must include an interlock or control feature that blocks release of the spring or stored-energy system unless the charging cycle has been properly completed.

The other options do not express the required stored-energy mechanism function. Indicating control power availability may be useful, but it is not the defining requirement of the stored-energy mechanism itself.

Detecting fault current is the job of protective relays and sensing devices, not the charging mechanism.

Locating the position of the charging mechanism is not a required protective function. In API-aligned source inspection of switchgear, the inspector verifies mechanism operation, interlocks, test records, and compliance with the applicable standards and project specifications. Therefore, the required function is to prevent release of stored energy unless the mechanism is fully charged, making option D the verified answer.

NEW QUESTION # 48

During switchgear source inspection, which item must be verified to prevent opening a medium-voltage door when the isolation switch handle is in the full ON position?

- **A. Door interlock operation**
- B. CT polarity marking

- C. Meter accuracy class
- D. Space heater thermostat

Answer: A

NEW QUESTION # 49

The insulation resistance test uses what type of applied voltage?

- A. Full-wave rectified
- B. Half-wave pulsating
- C. AC
- **D. DC**

Answer: D

Explanation:

The correct answer is B because an insulation resistance test is performed by applying a direct current DC voltage to the insulation system and then measuring the resistance to leakage current. This is the basic operating principle of a megohmmeter, which is the instrument commonly used for this test. DC is used because it allows the tester to evaluate insulation leakage characteristics in a stable and controlled way without the capacitive and reactive effects that would complicate interpretation if AC were used. This aligns with standard electrical inspection and test practice for cables, motors, transformers, switchgear, and control equipment. The purpose of the test is to assess insulation condition without causing damage when the proper test voltage is selected. That is why insulation resistance testing is generally considered a non-destructive diagnostic test. The other options are incorrect because AC is used for different types of testing, while half-wave pulsating and full-wave rectified waveforms are not the standard answer for insulation resistance testing terminology in inspection practice. In API-aligned source inspection, verifying proper test methods, correct instruments, and valid recorded results is essential when reviewing factory test documentation for electrical equipment.

NEW QUESTION # 50

When a deviation from specifications, drawings, codes, or standards is identified, the source inspector should FIRST treat it as:

- A. a warranty issue
- B. a supplier observation only
- **C. a nonconformance**
- D. a schedule note

Answer: C

NEW QUESTION # 51

According to API 541, when shall the vendor provide calculated data from the final witness testing?

- A. At time of final shipment
- B. Upon request
- **C. Two weeks following testing**
- D. Immediately upon completion of testing

Answer: C

Explanation:

The correct answer is A. Under API 541, the vendor is required to provide the calculated data from the final witness testing within two weeks following completion of the testing. This requirement recognizes that some final witnessed test results, especially those involving calculated performance values, are not always fully available at the exact moment the physical test ends. The vendor may need additional time to review recorded measurements, perform the required calculations, validate the data, and assemble the final certified test package.

This timing requirement is important in source inspection because the witnessed test may produce both directly observed readings and post-test calculated results. The source inspector confirms that the testing itself was properly performed and witnessed, while the final calculated package must still be submitted within the standard's required period so the purchaser can verify guaranteed motor performance and compliance. The other options are not the best match for the API 541 wording. "Upon request" is too indefinite, "at time of final shipment" may be too late, and "immediately upon completion of testing" does not allow for the calculation











and certification process. Therefore, two weeks following testing is the verified API 541 answer.

NEW QUESTION # 52

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