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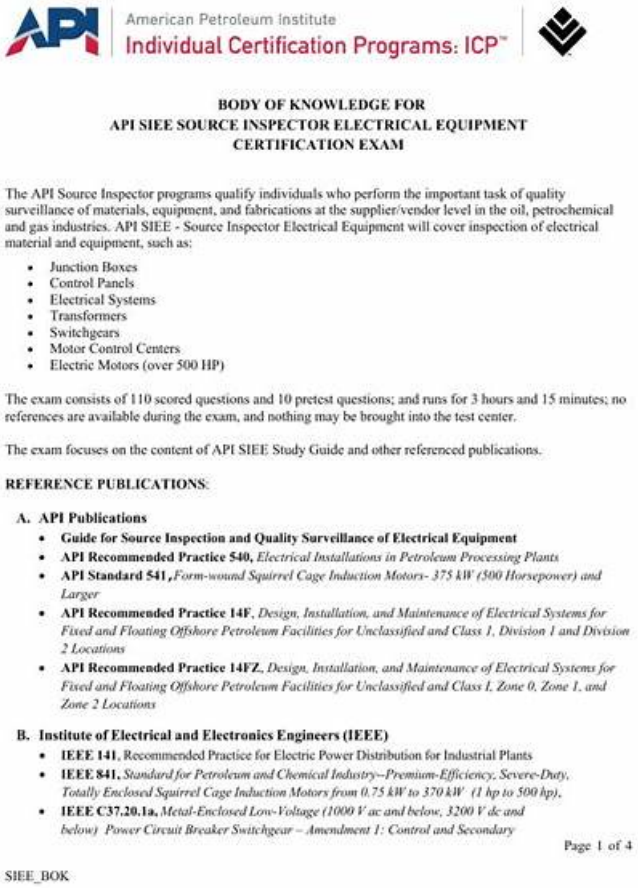

American Petroleum Institute
Individual Certification Programs: ICP™

BODY OF KNOWLEDGE FOR
API SIEE SOURCE INSPECTOR ELECTRICAL EQUIPMENT
CERTIFICATION EXAM

The API Source Inspector programs qualify individuals who perform the important task of quality surveillance of materials, equipment, and fabrications at the supplier/vendor level in the oil, petrochemical and gas industries. API SIEE - Source Inspector Electrical Equipment will cover inspection of electrical material and equipment, such as:

- Junction Boxes
- Control Panels
- Electrical Systems
- Transformers
- Switchgears
- Motor Control Centers
- Electric Motors (over 500 HP)

The exam consists of 110 scored questions and 10 pretest questions; and runs for 3 hours and 15 minutes; no references are available during the exam, and nothing may be brought into the test center.

The exam focuses on the content of API SIEE Study Guide and other referenced publications.

REFERENCE PUBLICATIONS:

A. API Publications

- **Guide for Source Inspection and Quality Surveillance of Electrical Equipment**
- **API Recommended Practice 540,** *Electrical Installations in Petroleum Processing Plants*
- **API Standard 541,** *Form-wound Squirrel Cage Induction Motors- 375 kW (500 Horsepower) and Larger*
- **API Recommended Practice 14F**, *Design, Installation, and Maintenance of Electrical Systems for Fixed and Floating Offshore Petroleum Facilities for Unclassified and Class 1, Division 1 and Division 2 Locations*
- **API Recommended Practice 14FZ**, *Design, Installation, and Maintenance of Electrical Systems for Fixed and Floating Offshore Petroleum Facilities for Unclassified and Class I, Zone 0, Zone 1, and Zone 2 Locations*

B. Institute of Electrical and Electronics Engineers (IEEE)

- **IEEE 141**, Recommended Practice for Electric Power Distribution for Industrial Plants
- **IEEE 841,** *Standard for Petroleum and Chemical Industry--Premium-Efficiency, Severe-Duty, Totally Enclosed Squirrel Cage Induction Motors from 0.75 kW to 370 kW (1 hp to 500 hp).*
- **IEEE C37.20.1a,** *Metal-Enclosed Low-Voltage (1000 V ac and below, 3200 V dc and below) Power Circuit Breaker Switchgear – Amendment 1: Control and Secondary*

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SIEE_BOK

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API API-SIEE Exam Syllabus Topics:

Topic	Details
Topic 1	• Liquid-Immersed Transformers: Covers the design, construction, and applicable industry codes and standards for liquid-immersed transformers.
Topic 2	• Examination Methods, Tools and Equipment: Covers the inspection techniques used in the field, including dimensional, visual, electrical testing, functional testing, and coatings inspections.
Topic 3	• Terms and Definitions: Covers the foundational terminology and definitions used throughout electrical source inspection work.

Topic 4	• Source Inspection Performance: Covers inspector conduct, safety, project document review, report writing, and handling nonconformances and deviations during inspections.
Topic 5	• Switchgear (Low & Medium Voltage): Covers design, construction, ratings, interlocks, wiring, enclosures, bus compartments, breakers, transformers, and metering for LV and MV switchgear.
Topic 6	• Source Inspection Management Program: Addresses the organizational framework and management practices that govern source inspection programs.
Topic 7	• Electrical Skid Mounted Equipment: Addresses inspection of skid-mounted assemblies including hazardous location equipment, grounding, cable systems, control wiring, and applicable codes.
Topic 8	• Electrical Inspection Tools and Test Equipment: Covers the tools and test equipment used by inspectors to perform electrical source inspections.
Topic 9	• Motor Control Centers (Low to Medium Voltage): Covers design standards, materials, enclosure types, breakers, amp capacity, cable entry, and grounding components for MCCs.
Topic 10	• Equipment Risk Assessment: Focuses on developing inspection project plans, inspection and test plans, and reviewing reports to assess equipment risk.

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API Source Inspector Electrical Equipment Sample Questions (Q63-Q68):

NEW QUESTION # 63
According to ANSI/IEEE C37.20.2, wiring across a hinge shall be all of the following except:

- A. 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.
- B. sufficiently flexible to withstand repeated door movement without sustaining damage to wire strands or insulation.
- C. 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.
- D. No. 14 AWG and larger, and C or D stranding.

Answer: A

Explanation:
The correct answer isBbecause ANSI and IEEE requirements for control wiring that passes across hinged doors or panels in metal-enclosed switchgear emphasizemechanical 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 optionsAandCreflect accepted requirements: the wiring must be flexible enough for repeated motion and arranged in a formed loop with proper securement. OptionDis also consistent with switchgear wiring practice, where conductor size and stranding class are specified to provide durability under mechanical movement.
OptionBadds 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 # 64

Which item is part of typical final inspection and shipping preparation for a liquid-immersed transformer?

- A. Verification that all FAT issues are resolved
- B. Reclassification of the project risk register
- C. Reissue of procurement bid tabs
- D. Elimination of all documentation requirements

Answer: A

NEW QUESTION # 65
According to NEMA ICS 2, a provision for pad locking shall be provided:

- A. on the wireway to prevent opening the wireway on the motor control center.
- B. on the rear door of the low voltage motor control center.
- C. on the door to prevent opening the combination starter door.
- D. on the external operating handle.

Answer: D

Explanation:
The correct answer isB. UnderNEMA ICS 2for motor controllers and combination starters, the required provision forpadlockingis associated with theexternal operating handle. This arrangement allows the disconnecting means or operating mechanism to be secured in the desired position, typically for safety isolation and lockout purposes during maintenance or inspection. It is a functional safety feature tied directly to operation of the controller, not merely to enclosure access.
The other options are not the standard requirement in this context. Padlocking thedoor,wireway, orrear doormay be used in some installations for security or restricted access, but those are not the specific NEMA ICS 2 provisions identified for the controller operating mechanism itself. The standard intent is to ensure that the operating handle can be locked so the equipment cannot be unintentionally operated while personnel are working on or near it.
From an API source inspection perspective, this falls under verification ofMCC construction details, safety features, interlocks, and compliance with applicable referenced standardsduring shop inspection and quality surveillance. Therefore, the correct answer ison the external operating handle, which makesoption Bthe verified answer.

NEW QUESTION # 66
What standard is used for the installation of signaling and communications conductors, equipment, and raceways?

- A. NFPA 70
- B. NEMA 250
- C. IEC 20047
- D. IEEE C37.20.2

Answer: A

Explanation:
The correct answer isC, NFPA 70. NFPA 70 is theNational Electrical Codeand it is the primary installation standard used for electrical wiring systems, includingsignaling and communications conductors, associated equipment, and raceways. In source inspection and quality surveillance, the inspector must verify that electrical equipment and its installation-related features are consistent with the applicable code requirements identified in the purchase documents and project specifications. For signaling and communications circuits, NFPA 70 provides the governing installation rules for conductor methods, separation, protection, routing, and raceway usage.
The other options do not fit this question.NEMA 250covers enclosure types and environmental protection ratings for electrical equipment enclosures, not installation rules for communications and signaling systems.
IEEE C37.20.2applies to metal-clad switchgear, so it is equipment-specific and not the general installation code for communications conductors.IEC 20047is not the recognized answer in this context.
From an API source inspection perspective, this distinction matters because inspectors must know whether they are checkingequipment construction standardsorfield installation code requirements. For signaling and communications installations, the correct governing standard isNFPA 70.

NEW QUESTION # 67

What is the common industry term used for the dielectric withstand test?

- A. Voltage test
- B. Current test
- C. Hipot test
- D. Capacitor microfarad dielectric test

Answer: C

Explanation:
The correct answer isAbecause thecommon industry termfor adielectric withstand testis theHipot test, short forhigh-potential test. This test is used to verify that the insulation system of electrical equipment can withstand an applied voltage higher than its normal operating voltage for a specified period without breakdown, flashover, or excessive leakage current. It is widely used during factory testing and acceptance testing for equipment such as switchgear, control panels, transformers, motors, and cables.
In inspection practice, the dielectric withstand or Hipot test is an important confirmation of insulation integrity after assembly or manufacture. It is different from an insulation resistance test, which measures resistance in ohms using DC voltage. A Hipot test instead stresses the insulation at a specified elevated voltage to demonstrate that the insulation system is sound. The other options are incorrect becausevoltage testis too generic,current testdoes not describe the purpose, andcapacitor microfarad dielectric testis not a recognized common industry name. Therefore, the standard industry term for the dielectric withstand test isHipot test, makingoption Athe verified answer.

NEW QUESTION # 68
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