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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	• Electrical Induction Motors: Covers design and construction standards, materials of construction, and motor testing requirements for electrical induction motors.
Topic 4	• Electrical Skid Mounted Equipment: Addresses inspection of skid-mounted assemblies including hazardous location equipment, grounding, cable systems, control wiring, and applicable codes.
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 Performance: Covers inspector conduct, safety, project document review, report writing, and handling nonconformances and deviations during inspections.
Topic 7	• Electrical Inspection Tools and Test Equipment: Covers the tools and test equipment used by inspectors to perform electrical source inspections.

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API Source Inspector Electrical Equipment Sample Questions (Q48-Q53):

NEW QUESTION # 48
The insulation resistance test uses what type of applied voltage?

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

Answer: B

Explanation:
The correct answer isBbecause aninsulation resistance testis performed by applying adirect current DC voltageto the insulation system and then measuring the resistance to leakage current. This is the basic operating principle of amegohmmeter, 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 anon- 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 # 49
Laminations in a motor stator core are used to reduce:

- A. frequency.
- B. DC voltage.
- C. energy loss.
- D. AC voltage.

Answer: C

Explanation:
The correct answer isC. Stator cores in electric motors are built fromthin laminated steel sheetsrather than one solid mass of metal in order to reducecore losses, especiallyeddy current losses. When alternating magnetic flux passes through a solid iron core, circulating currents are induced within the metal. These currents create unwanted heating and waste energy. By dividing the core into insulated laminations, the path available for these circulating currents is broken up and their magnitude is greatly reduced. This improves motor efficiency, lowers temperature rise, and helps preserve insulation life.
From an API source inspection standpoint, this matters because core construction directly affects the performance and reliability of large motors. Excessive core losses can lead to overheating, degraded efficiency, and premature insulation damage. During manufacturing and inspection, the source inspector may review core fabrication quality, lamination integrity, and test results that indicate proper magnetic and thermal performance. The purpose of laminations is not to reduceAC voltage,frequency, orDC voltage. Their function is to minimizeenergy lossin the magnetic core, makingCthe verified best answer.

NEW QUESTION # 50

What standard defines the maximum number of conductors permitted in outlets, devices and junction boxes, and conduit bodies?

- A. NFPA 70
- B. NEMA 250
- C. IEC 60079 series
- D. IEEE 112

Answer: A

Explanation:
The correct answer isAbecauseNFPA 70, the National Electrical Code, is the standard that defines conductor fill requirements foroutlet boxes, device boxes, junction boxes, and conduit bodies. These rules are commonly calledbox filland are intended to prevent overcrowding, overheating, insulation damage, and unsafe bending or termination conditions inside enclosures. NFPA 70 provides the method for determining how many conductors are permitted based on conductor size, internal volume, devices, fittings, equipment grounding conductors, and similar factors. This is exactly the type of requirement a source inspector or quality-surveillance professional must verify when reviewing fabricated electrical assemblies and associated installation details.
The other options do not fit this requirement.IEEE 112relates to electric motor testing,IEC 60079 seriesapplies to explosive atmospheres and hazardous locations, andNEMA 250covers enclosure classifications and environmental protection types rather than conductor-fill limits. In API-aligned inspection practice, the inspector confirms that junction boxes and related electrical assemblies comply with the applicable governing codes and referenced standards. For conductor count limits in boxes and conduit bodies, the governing standard isNFPA 70.

NEW QUESTION # 51
What is the process that aims to find potential defects in a product before it is released for delivery?

- A. Quality Assurance
- B. Quality Control
- C. Examination
- D. Inspection

Answer: D

Explanation:
The correct answer isAbecauseinspectionis the activity specifically directed at identifying defects, nonconformities, damage, incomplete work, or deviations from specified requirements before the product is accepted and released for shipment or delivery. In the API source inspection context, inspection is a focused verification activity carried out during manufacturing and at final stages to confirm that the equipment conforms to approved drawings, purchase specifications, code requirements, and inspection and test plans. It is therefore the most direct process for finding product defects before handover.
Quality controlis broader than inspection. It includes inspection, testing, review of records, and other operational techniques used to verify product quality.Quality assuranceis even broader and more preventive; it focuses on the quality system, procedures, planning, and confidence that quality requirements will be met.
Examinationis too general and is not the best formal answer in source inspection terminology.
From an API perspective, the source inspector's practical role is to witness, verify, document, and report conformance and nonconformance. That makes inspection the primary defect-finding activity before delivery.

NEW QUESTION # 52
According to API 541, determination of efficiency and power, locked-rotor current, power factor, torque, full- load current and slip are some of the tests verified when performing a:

- A. design test.
- B. routine test.
- C. compliance test.
- D. complete test.

Answer: D

Explanation:
The correct answer isAbecause the group of performance items listed in the question-efficiency, power, locked-rotor current, power factor, torque, full-load current, and slip-belongs to acomplete testfor large electric motors under API 541 practice. A complete test

is broader than a routine production test because it verifies the motor's full performance characteristics, not just basic manufacturing acceptability. These measurements are used to confirm that the motor meets its guaranteed operating and starting characteristics and that its electrical and mechanical performance aligns with the design and specification requirements.
Aroutine testis normally more limited and is intended to confirm standard production quality on each motor, such as winding resistance, insulation checks, no-load current, vibration, or similar baseline acceptance items.
Adesign testis generally associated with proving a design type rather than verifying all ordered motor performance data on a specific unit. Acompliance testis not the best match for this defined set of performance determinations. In API-aligned source inspection, these performance verifications are associated with thecomplete test, makingoption Athe correct answer.

NEW QUESTION # 53
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