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API API-SIEE Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Liquid-Immersed Transformers: Covers the design, construction, and applicable industry codes and standards for liquid-immersed transformers.
Topic 2	<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 3	<ul style="list-style-type: none"> Electrical Inspection Tools and Test Equipment: Covers the tools and test equipment used by inspectors to perform electrical source inspections.
Topic 4	<ul style="list-style-type: none"> Terms and Definitions: Covers the foundational terminology and definitions used throughout electrical source inspection work.
Topic 5	<ul style="list-style-type: none"> Switchgear (Low & Medium Voltage): Covers design, construction, ratings, interlocks, wiring, enclosures, bus compartments, breakers, transformers, and metering for LV and MV switchgear.
Topic 6	<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 7	<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 8	<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 9	<ul style="list-style-type: none"> Source Inspection Management Program: Addresses the organizational framework and management practices that govern source inspection programs.

API Source Inspector Electrical Equipment Sample Questions (Q72-Q77):

NEW QUESTION # 72

According to ANSI C57.12, the average winding temperature rise above ambient temperature shall not exceed what value?

- A. 65°C
- B. 70°C
- C. 90°C
- D. 80°C

Answer: A

Explanation:

The correct answer is A. Under ANSI C57.12 transformer requirements, the average winding temperature rise above ambient is commonly limited to 65°C for standard transformer designs. This limit is important because transformer insulation life is strongly affected by operating temperature. If the winding temperature rise exceeds the permitted value, insulation aging accelerates, reducing transformer reliability and service life.

That is why temperature-rise testing is a key verification item during transformer manufacture and factory acceptance activities. From a source inspection perspective, the inspector should verify that the transformer has been tested in accordance with the applicable standard, that the measured temperature-rise values are properly recorded, and that the results comply with the specified acceptance criteria. The average winding temperature rise is not the same as hotspot temperature, and it must be evaluated against the standard test method and rating basis. The other options are too high for the standard average winding rise value typically associated with ANSI C57.12.

In API-aligned source inspection and quality surveillance of transformers, confirming compliance of factory test results such as temperature-rise performance is an essential part of final acceptance. Therefore, 65°C is the verified answer.

NEW QUESTION # 73

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

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

Answer: B

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 # 74

What is an advantage of the Insulation Resistance test?

- A. It can be conducted above the breakdown voltage of the insulation.
- **B. It is non-destructive in nature.**
- C. It is not affected by higher moisture content in the air.
- D. It is not affected by increases in joint temperature.

Answer: B

Explanation:

The correct answer is A because the insulation resistance test is fundamentally a non-destructive diagnostic test when performed at the proper test voltage and in accordance with accepted procedures. It is used to evaluate the condition of insulation by applying a DC test voltage that is well below the insulation breakdown level and measuring the resistance to leakage current. This allows the inspector or tester to assess insulation health without intentionally damaging the equipment. That is why it is commonly used during factory testing, pre-commissioning checks, maintenance evaluations, and source inspection verification activities.

The other options are incorrect. Moisture significantly affects insulation resistance and usually lowers the measured value. Temperature also affects readings, which is why test results are often corrected or interpreted with temperature in mind. The test is not intended to be conducted above the breakdown voltage of the insulation; doing so would be destructive and would belong to a different category of high-potential testing.

The API Guide for Source Inspection and Quality Surveillance of Electrical Equipment includes electrical systems among the covered equipment categories and focuses on source inspection and quality surveillance activities used to verify conformance and test readiness.

NEW QUESTION # 75

Laminations in a motor stator core are used to reduce:

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

Answer: B

Explanation:

The correct answer is C. Stator cores in electric motors are built from thin laminated steel sheets rather than one solid mass of metal in

order to reduce core losses, especially eddy 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 reduce AC voltage, frequency, or DC voltage. Their function is to minimize energy loss in the magnetic core, making it the verified best answer.

NEW QUESTION # 76

Positive-pressurization and purging are based on the principle that an enclosure or room located in a classified location can:

- A. contain low levels of ignitable liquid gas.
- **B. be supplied with clean air or inert gas at sufficient level.**
- C. have concentrations of flammable gas or vapor.
- D. have arcing low voltage relays operating normally.

Answer: B

Explanation:

The correct answer is C. In hazardous or classified locations, positive pressurization and purging protect electrical equipment by preventing the surrounding flammable atmosphere from entering the enclosure. The operating principle is that the enclosure, cabinet, or room is supplied with clean air or an inert gas at a pressure and flow rate high enough to keep hazardous gas or vapor out before and during equipment operation. This allows equipment that might otherwise not be suitable for direct exposure to a classified atmosphere to operate safely when the purge and pressure conditions are maintained.

From an API source-inspection perspective, this aligns with the guide's emphasis on verifying compliance with the specified protection method, nameplate data, project drawings, and applicable hazardous-area requirements during inspection and surveillance. The inspector's concern is not simply whether the enclosure exists, but whether the correct protective concept has been applied and supported by proper fabrication, testing, and documentation. Options A and B describe the hazardous atmosphere itself, not the protection principle. Option D is incorrect because normal arcing devices still require a suitable protection method; pressurization does not rely on relays arcing normally.

NEW QUESTION # 77

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