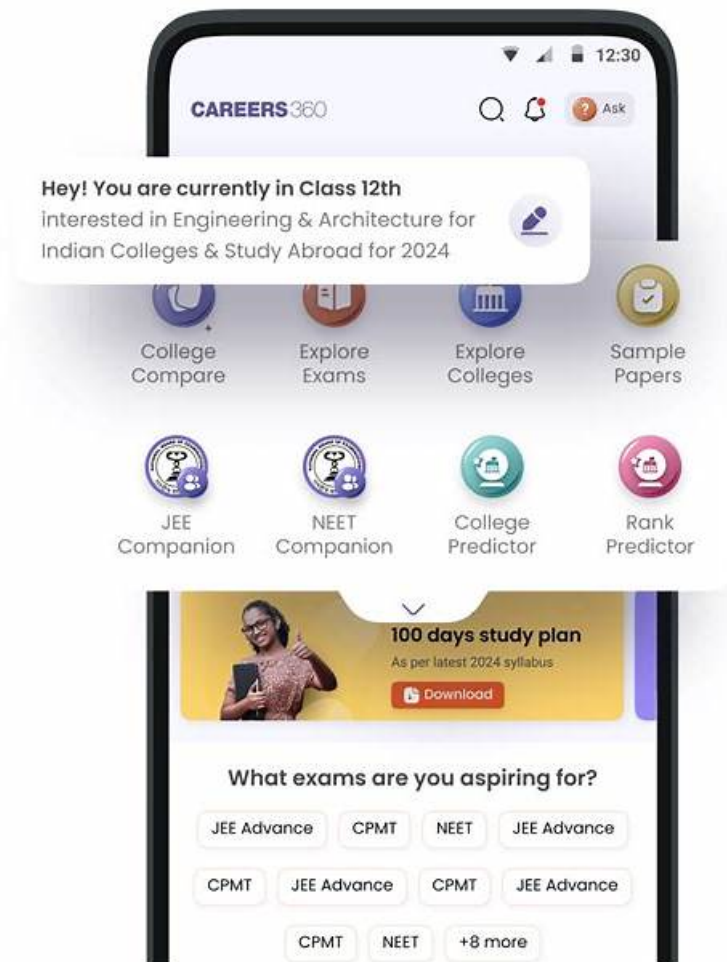


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API API-SIEE Exam Syllabus Topics:

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">• Terms and Definitions: Covers the foundational terminology and definitions used throughout electrical source inspection work.
Topic 3	<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 4	<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 5	<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 6	<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 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.

API Source Inspector Electrical Equipment Sample Questions (Q83-Q88):

NEW QUESTION # 83

The primary purpose of the source inspection project plan is to provide the:

- A. experience, training and certification record of each source inspector assigned to each supplier/vendor.
- B. safety and professional conduct policy for the inspector assigned to the supplier/vendor.
- C. basis for the risk assessment associated with each specific piece of equipment.
- D. project specific details on how the inspection activities performed will meet the expected quality.

Answer: D

Explanation:

The correct answer is A. The source inspection project plan is the document that defines how inspection and surveillance will be carried out for a particular purchase order, package, or item of equipment so that the required quality expectations, contractual requirements, specifications, and critical inspection points are properly addressed. In practical API source inspection work, the plan establishes the scope of surveillance, identifies what documents will be reviewed, what hold or witness points will be observed, what tests will be witnessed, and how findings will be reported. Its purpose is therefore to give project-specific direction on how inspection activities will assure conformance to the purchaser's requirements.

Option B is not the best answer because risk assessment may help determine the plan, but it is not the plan's primary purpose.

Option C is incorrect because inspector qualifications may be maintained elsewhere in personnel records and are not the core function of the project plan. Option D is also incorrect because safety and conduct expectations are general organizational requirements, not the main objective of the source inspection project plan. The plan is fundamentally about how inspection will be executed to verify quality.

NEW QUESTION # 84

In hazardous classified locations on process skids, electrical and instrumentation equipment installed in the classified area must be:

- A. painted red
- B. certified for the hazardous location
- C. mounted only outdoors

- D. supplied by the same manufacturer as the process equipment

Answer: B

NEW QUESTION # 85

According to ANSI/NETA/ATS, when performing a dielectric withstand test on each bus section, the test voltage shall be applied for how long?

- A. One hour
- B. One day
- C. One minute
- D. One second

Answer: C

Explanation:

The correct answer is B. Under ANSI/NETA/ATS practices, a dielectric withstand test on each bus section is typically performed by applying the specified test voltage for one minute. This one-minute duration is the standard acceptance interval used to demonstrate that the bus insulation system can safely withstand the prescribed overvoltage without breakdown, flashover, or unacceptable leakage. It provides enough time to reveal insulation weakness while remaining within the intended non-routine high-potential test method for acceptance testing.

From a source inspection perspective, this matters because switchgear bus insulation integrity is a critical verification point during factory testing and final quality surveillance. The inspector is expected to confirm that the correct test method, voltage level, duration, and acceptance criteria are used and properly recorded in the manufacturer's test documentation. The API Guide for Source Inspection and Quality Surveillance of Electrical Equipment includes switchgear among the major covered equipment categories and emphasizes verification of tests, records, and compliance with applicable standards during source inspection and surveillance. Therefore, for a dielectric withstand test on each bus section, the specified voltage is applied for one minute, making option B the verified answer.

NEW QUESTION # 86

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

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

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 # 87

What document is used for petroleum and chemical industry premium-efficiency, severe-duty, totally enclosed fan-cooled TEFC squirrel cage induction motors up to and including 370 kW 500 hp?

- A. API 546
- B. IEEE 841

- C. NFPA 70
- D. IEEE 141

Answer: B

Explanation:

The correct answer is C. IEEE 841 is the recognized standard for premium-efficiency, severe-duty, totally enclosed fan-cooled TEFC squirrel cage induction motors intended for the petroleum and chemical industry, specifically for motors up to and including 370 kW 500 hp. This standard is widely used for horizontal and vertical low-voltage severe-duty motors where high reliability, corrosion resistance, vibration control, and robust construction are required for demanding industrial service.

The other options do not fit this scope. API 546 applies to brushless synchronous machines, not TEFC squirrel cage induction motors in this size range. IEEE 141 is the Red Book related to electrical power distribution system design, not a motor construction standard. NFPA 70 is the National Electrical Code, which governs installation requirements rather than the detailed design and construction standard for this specific motor type.

In API-aligned source inspection practice, identifying the correct governing standard is essential when reviewing nameplates, data sheets, test procedures, inspection points, and compliance documentation. For TEFC severe-duty squirrel cage induction motors up to 500 hp, the applicable document is IEEE 841, making option C the verified answer.

NEW QUESTION # 88

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