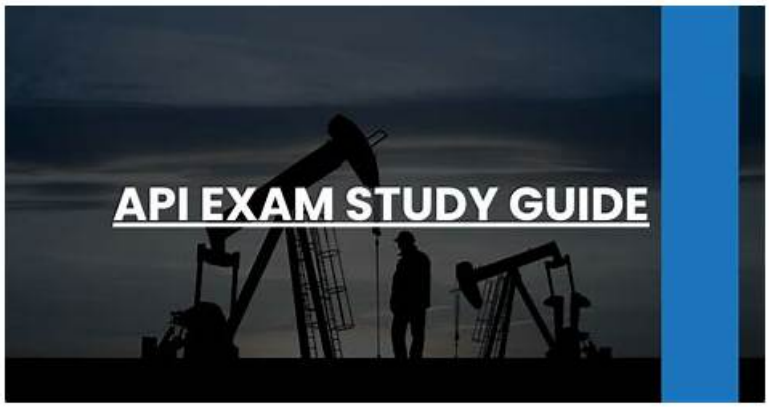
Latest API API-SIEE Exam Format - Latest API-SIEE Study Guide



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API API-SIEE Exam Syllabus Topics:

Topic	Details
Topic 1	• Electrical Induction Motors: Covers design and construction standards, materials of construction, and motor testing requirements for electrical induction motors.
Topic 2	• Equipment Risk Assessment: Focuses on developing inspection project plans, inspection and test plans, and reviewing reports to assess equipment risk.
Topic 3	• Liquid-Immersed Transformers: Covers the design, construction, and applicable industry codes and standards for liquid-immersed transformers.
Topic 4	• Examination Methods, Tools and Equipment: Covers the inspection techniques used in the field, including dimensional, visual, electrical testing, functional testing, and coatings inspections.
Topic 5	• Terms and Definitions: Covers the foundational terminology and definitions used throughout electrical source inspection work.
Topic 6	• Switchgear (Low & Medium Voltage): Covers design, construction, ratings, interlocks, wiring, enclosures, bus compartments, breakers, transformers, and metering for LV and MV switchgear.
Topic 7	• Source Inspection Performance: Covers inspector conduct, safety, project document review, report writing, and handling nonconformances and deviations during inspections.

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API Source Inspector Electrical Equipment Sample Questions (Q42-Q47):

NEW QUESTION # 42
What is the purpose of a clamp meter?

- A. To verify the process temperature and the equipment temperature have the same Class 1 rating
- B. To measure the magnetic field around a conductor
- C. To externally measure the sum of the current flowing through the cable
- D. To test that the electrical equipment maximum temperature does not exceed the ignition temperature of gases in the environment

Answer: C

Explanation:
The correct answer isC. Aclamp meteris used to measureelectrical current externallywithout disconnecting the conductor or opening the circuit. It works by clamping around a conductor and sensing the magnetic field created by current flow, then converting that into a current reading. In practical inspection and test work, the instrument'spurposeis current measurement, not merely magnetic-field observation. That is why option C is the best answer.
Option A describes theoperating principlein a partial sense, but not the actual inspection purpose of the device. Options B and D are unrelated to clamp meters and instead refer to hazardous-area temperature classification concepts. In API-aligned source inspection and quality surveillance, proper use of electrical measuring instruments is essential when verifying test results, factory checkout activities, and equipment conformity. The guide emphasizes inspection and surveillance of electrical equipment categories such aselectrical systems, along with verification of testing and measurement activities as part of source inspection practice. Therefore, a clamp meter is correctly usedto externally measure current flowing through a conductor, makingoption Cthe verified answer.

NEW QUESTION # 43
Laminations in a motor stator core are used to reduce:

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

Answer: D

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 # 44
During transformer inspection, the source inspector should verify that alarm, control, and trip settings on temperature and level indicators are:

- A. determined only by the freight forwarder
- B. identical for every transformer rating
- C. as specified
- D. omitted unless requested by operations

Answer: C

NEW QUESTION # 45
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. have arcing low voltage relays operating normally.
- C. have concentrations of flammable gas or vapor.
- D. be supplied with clean air or inert gas at sufficient level.

Answer: D

Explanation:
The correct answer isC. 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 withclean air or an inert gasat 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 thespecified 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 # 46
Which statement BEST reflects the guide's discussion of process packaged skids?

- A. Hazardous-area certification is not required for field devices
- B. Most electrical and control equipment is often located off-skid in an unclassified location
- C. All electrical and control equipment is normally mounted directly on the skid
- D. Process skids cannot include instrumentation wiring

Answer: B

NEW QUESTION # 47
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