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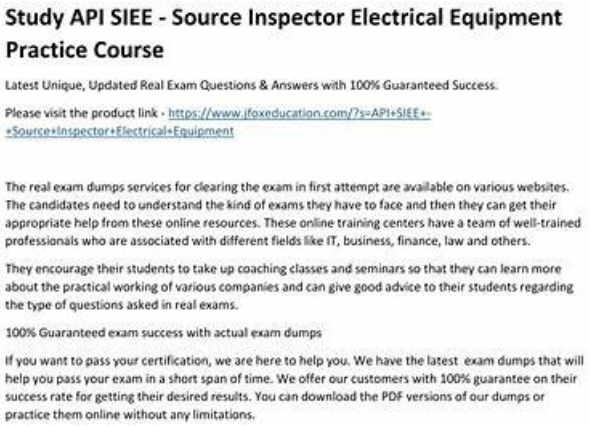
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API API-SIEE Exam Syllabus Topics:

Topic	Details
Topic 1	• Terms and Definitions: Covers the foundational terminology and definitions used throughout electrical source inspection work.
Topic 2	• Source Inspection Management Program: Addresses the organizational framework and management practices that govern source inspection programs.
Topic 3	• Switchgear (Low & Medium Voltage): Covers design, construction, ratings, interlocks, wiring, enclosures, bus compartments, breakers, transformers, and metering for LV and MV switchgear.
Topic 4	• Electrical Inspection Tools and Test Equipment: Covers the tools and test equipment used by inspectors to perform electrical source inspections.
Topic 5	• Source Inspection Performance: Covers inspector conduct, safety, project document review, report writing, and handling nonconformances and deviations during inspections.
Topic 6	• Equipment Risk Assessment: Focuses on developing inspection project plans, inspection and test plans, and reviewing reports to assess equipment risk.

API Source Inspector Electrical Equipment Sample Questions (Q95-Q100):

NEW QUESTION # 95
NEMA rated motor controllers require a minimum range of conductor sizes for a specific size controller.
Which of the following conductor sizes is appropriate for a Size 2 controller?

- A. 10-4 AWG at 60°C rated cable and 10-6 AWG at 75°C rated cable
- B. 2/0 AWG -250MCM at 60°C rated cable and 2/0 AWG -350MCM at 75°C rated cable
- C. 2-2/0 AWG at 60°C rated cable and 2-4/0 AWG at 75°C rated cable
- D. 10-2/0 AWG at 60°C rated cable and 10-4/0 AWG at 75°C rated cable

Answer: A

Explanation:
The correct answer isD. For aNEMA Size 2 motor controller, the appropriate conductor range is10 AWG to 4 AWG for 60°C rated cableand10 AWG to 6 AWG for 75°C rated cable. This matches the common NEMA controller terminal wire range used for Size 2 starters and controllers in industrial motor control applications.
In practical source inspection and shop verification, this matters because the inspector must confirm that the controller terminals are suitable for the intended field wiring and that the manufacturer's assembly, labels, and terminal data are consistent with the governing standard and purchase specification.
The API Guide for Source Inspection and Quality Surveillance of Electrical Equipment includesMotor Control Centersamong the major covered equipment categories for source inspection. The guide also makes clear that its focus is onsource inspection and quality surveillance activities, meaning verification of compliance with drawings, specifications, nameplates, and applicable referenced standards during manufacture and inspection. Since MCC buckets and NEMA motor controllers rely on proper terminal and conductor compatibility,option Dis the correct NEMA-aligned answer.

NEW QUESTION # 96
According to NFPA 70, equipment shall be marked to show the hazardous environment for which it has been evaluated. Markings on this equipment shall include which of the following?

- A. Class, division, material classification group, equipment temperature, ambient temperature range
- B. Class, voltage, material classification group, operating temperature, ambient temperature range
- C. Class, division, material of construction, equipment temperature, ambient temperature range
- D. Class, voltage, current, material of construction, equipment temperature

Answer: A

Explanation:

The correct answer isB. For equipment intended for hazardous locations,NFPA 70requires marking that identifies the hazardous environment for which the equipment has been evaluated. Those markings must communicate the essential classification information needed for safe application in the field. This includes theClassof hazardous location, theDivisionwhere applicable, thematerial classification group, theequipment temperatureor temperature code, and theambient temperature rangewhen relevant. These markings allow the user, inspector, and installer to confirm that the equipment is suitable for the specific flammable gas, vapor, dust, or fiber hazard present at the site.
From an API source inspection perspective, this is a critical verification item during final inspection because hazardous-area suitability depends not only on construction, but also on propernameplate and marking compliance. The inspector must confirm that the marked classification agrees with the purchase specification, area classification documents, and certification data. Options A, C, and D are incorrect becausevoltage, current, andmaterial of constructionare not the specific hazardous-location marking elements asked for here.
The required hazardous-environment marking set is most accurately described inB.

NEW QUESTION # 97
According to API 541, totally enclosed machines TEFC, TEPV, TEWAC, and TEAAC are equipped with which of the following?

- A. Bearing RTDs
- B. Low-point drain
- C. Heat exchanger cooling fan
- D. Surge protectors

Answer: B

Explanation:
The correct answer isA. Under API 541,totally enclosed machinessuch asTEFC, TEPV, TEWAC, and TEAACare required to have alow-point drain. This requirement exists because enclosed motors can accumulatecondensation or moistureinside the housing due to temperature changes, shutdown periods, ambient humidity, or cooling system operation. If that moisture is not removed, it can degrade insulation, promote corrosion, contaminate internal parts, and shorten motor life. The low-point drain provides a controlled path for accumulated liquid to escape from the lowest part of the enclosure.
The other options are not universally required for all these enclosure types. Aheat exchanger cooling fanmay apply only to certain cooling arrangements, not to every totally enclosed machine listed.Bearing RTDsmay be specified for monitoring on many large motors, but they are not the defining common feature identified by this question.Surge protectorsare auxiliary protective devices and are not the standard enclosure-related requirement here. In source inspection practice, the inspector should verify that the motor enclosure includes the requireddrain provisions, that they are properly located, and that they conform to the approved design and specification.

NEW QUESTION # 98
This device is a(n):

- A. vernier caliper.
- B. micrometer.
- C. digital caliper.
- D. engineer's scale.

Answer: B

Explanation:
The correct answer isAbecause the illustrated device is anoutside micrometer. Its labeled parts clearly identify it:frame, anvil, spindle, lock nut, thimble, and ratchet knob. These are the standard components of a micrometer used for highly accurate dimensional measurement of outside diameters, thicknesses, and small gaps. In source inspection and quality surveillance, this type of instrument is commonly used when verifying critical dimensions of machined parts, shaft diameters, plate thicknesses, and other precision features that must comply with drawings and manufacturing tolerances.
The other options do not match the image. Adigital caliperhas sliding jaws and an electronic display. Avernier caliperalso uses sliding jaws with a vernier scale, not a rotating thimble and spindle arrangement. Anengineer' s scaleis a straight rule used for scaled drawing measurements, not for precision mechanical inspection. In API-aligned source inspection practice, understanding inspection tools is essential because inspectors must use the correct measuring instrument for the required tolerance and ensure that the device is properly controlled and calibrated. Therefore, the pictured instrument is correctly identified as amicrometer, makingoption Athe verified answer.

NEW QUESTION # 99
The insulation requirement referred to in NEMA ICS 1 defines clearance as the shortest distance:

- A. over the surface of an insulating material between two conducting parts.
- B. measured through air between two conducting parts.
- C. a person can approach a live conductor without initiating a hazardous arcing incident.
- D. between the ground plane and the neutral conductor.

Answer: B

Explanation:
The correct answer isC. InNEMA ICS 1, the termclearancerefers to theshortest distance through air between two conductive parts. This is an important insulation concept used in industrial control and electrical equipment because adequate air spacing helps prevent dielectric breakdown, flashover, and unintended arcing when equipment operates at its rated voltage. During source inspection, this matters when verifying control panels, terminals, bus arrangements, relays, and other energized components where spacing must conform to design standards and applicable codes.
OptionBdescribes a different concept known ascreepage distance, which is the shortest pathalong the surface of an insulating materialbetween conductive parts. Clearance and creepage are related but not the same, and inspectors must understand that distinction when reviewing equipment construction. OptionAis not the NEMA definition of clearance, and optionDrefers more to personnel approach boundaries or electrical safety concepts, not insulation spacing requirements.
For API source inspection of control panels and similar assemblies, verifying properair clearancesis essential to confirming safe construction and compliance with specified electrical standards.

NEW QUESTION # 100
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There is a succession of anecdotes, and there are specialized courses. Experts call them experts, and they must have their advantages. They are professionals in every particular field. The API-SIEE test material, in order to enhance the scientific nature of the learning platform, specifically hired a large number of qualification exam experts, composed of product high IQ team, these experts by combining his many years teaching experience of API-SIEE Quiz guide and research achievements in the field of the test, to exam the popularization was very complicated content of Source Inspector Electrical Equipment exam dumps, better meet the needs of users of various kinds of cultural level.

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