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## API API-SIEE Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• Source Inspection Management Program: Addresses the organizational framework and management practices that govern source inspection programs.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• Liquid-Immersed Transformers: Covers the design, construction, and applicable industry codes and standards for liquid-immersed transformers.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• Electrical Skid Mounted Equipment: Addresses inspection of skid-mounted assemblies including hazardous location equipment, grounding, cable systems, control wiring, and applicable codes.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• Source Inspection Performance: Covers inspector conduct, safety, project document review, report writing, and handling nonconformances and deviations during inspections.</li> </ul>

Topic 5	<ul style="list-style-type: none"> <li>• <b>Electrical Inspection Tools and Test Equipment:</b> Covers the tools and test equipment used by inspectors to perform electrical source inspections.</li> </ul>
Topic 6	<ul style="list-style-type: none"> <li>• <b>Switchgear (Low &amp; Medium Voltage):</b> Covers design, construction, ratings, interlocks, wiring, enclosures, bus compartments, breakers, transformers, and metering for LV and MV switchgear.</li> </ul>

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## API Source Inspector Electrical Equipment Sample Questions (Q106-Q111):

### NEW QUESTION # 106

In addition to purchase order requirements and company standards, what document would provide the details for correct coatings application?

- **A. Manufacturers' Recommendations**
- B. Quality Plan
- C. ASME BPVC Section II
- D. Inspection and Test Plan

**Answer: A**

Explanation:

The correct answer is B. In source inspection of electrical equipment, coating quality is verified not only against the purchase order, project specifications, and company standards, but also against the coating manufacturer's application instructions and recommendations. These recommendations normally provide the practical details needed to achieve an acceptable coating system, such as required surface preparation, environmental limitations, mixing instructions, thinning limits, application method, dry film thickness range, recoat intervals, curing conditions, and compatibility between primer, intermediate, and finish coats. This is important because a coating may technically match the specified product name, yet still fail in service if it is applied outside the manufacturer's limits. From an API source inspection perspective, the inspector reviews whether the supplier's coating process follows the approved system requirements and whether application conditions and records support compliance. A Quality Plan describes how quality activities are managed, but it does not usually contain the detailed technical application instructions. An Inspection and Test Plan identifies what will be checked and when, not how the coating should be applied. ASME BPVC Section II addresses material specifications and is not the governing application guide for paint systems.

### NEW QUESTION # 107

In addition to maximum rated voltage, manufacturer's name, trademark and AWG, which of the following markings is required for all conductors and cables?

- **A. Wire type designator**
- B. NEC class
- C. Batch or lot number
- D. Country of origin

**Answer: A**

### NEW QUESTION # 108

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. 80°C
- D. 90°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 # 109

Inspections, examinations, and tests must be performed in accordance with the source Inspection Test Plan, project specification, applicable codes and standards and meet:

- A. manufacturer's standard.
- B. commonly accepted industry practice.
- C. the applicable acceptance criteria.
- D. published catalog data.

**Answer: C**

Explanation:

The correct answer is C because inspections, examinations, and tests are only meaningful when their results are evaluated against defined acceptance criteria. In source inspection, the Source Inspection Test Plan, project specification, purchase order requirements, and applicable codes and standards establish not only what must be inspected or tested, but also the exact criteria that determine whether the item is acceptable. Without acceptance criteria, inspection results cannot be dispositioned objectively as pass, fail, conforming, or nonconforming.

The other options are not sufficient. Published catalog data may provide general product information, but it is not always the contractual or governing basis for acceptance. A manufacturer's standard may be used internally, but it cannot override purchaser requirements or applicable codes unless specifically approved.

Commonly accepted industry practice may guide methods, but acceptance decisions must still be based on the specified requirements and stated limits. The API guide emphasizes that it is focused on source inspection and quality surveillance activities and on verification against applicable requirements rather than informal judgment alone. Therefore, inspections and tests must meet the applicable acceptance criteria, making option C the verified answer.

#### NEW QUESTION # 110

Actual dimensions verified during a source inspection should be recorded in the:

- A. shop traveler.
- B. status report.
- C. redline drawing.
- D. reference drawing.

**Answer: A**

Explanation:

The correct answer is C. In source inspection practice, actual dimensions that are measured and verified during fabrication are normally recorded on the shop traveler or manufacturing record because that document follows the item through production and captures the step-by-step evidence of completion, inspection, and acceptance.

