Latest API API-SIEE Exam Pattern - API-SIEE Exam Passing Score

American Petroleum Institute
Individual Certification Programs: ICP™

BODY OF KNOWLEDGE FOR
API SIEE SOURCE INSPECTOR ELECTRICAL EQUIPMENT
CERTIFICATION EXAM

The API Source Inspector programs qualify individuals who perform the important task of quality surveillance of materials, equipment, and fabrications at the supplier/vendor level in the oil, petrochemical and gas industries. API SIEE - Source Inspector Electrical Equipment will cover inspection of electrical material and equipment, such as:

- Junction Boxes
- Control Panels
- Electrical Systems
- Transformers
- Switchgears
- Motor Control Centers
- Electric Motors (over 500 HP)

The exam consists of 110 scored questions and 10 pretest questions; and runs for 3 hours and 15 minutes; no references are available during the exam, and nothing may be brought into the test center.

The exam focuses on the content of API SIEE Study Guide and other referenced publications.

REFERENCE PUBLICATIONS:

A. API Publications

- **Guide for Source Inspection and Quality Surveillance of Electrical Equipment**
- **API Recommended Practice 540,** *Electrical Installations in Petroleum Processing Plants*
- **API Standard 541,** *Form-wound Squirrel Cage Induction Motors- 375 kW (500 Horsepower) and Larger*
- **API Recommended Practice 14F**, *Design, Installation, and Maintenance of Electrical Systems for Fixed and Floating Offshore Petroleum Facilities for Unclassified and Class 1, Division 1 and Division 2 Locations*
- **API Recommended Practice 14FZ**, *Design, Installation, and Maintenance of Electrical Systems for Fixed and Floating Offshore Petroleum Facilities for Unclassified and Class I, Zone 0, Zone 1, and Zone 2 Locations*

B. Institute of Electrical and Electronics Engineers (IEEE)

- **IEEE 141**, Recommended Practice for Electric Power Distribution for Industrial Plants
- **IEEE 841,** *Standard for Petroleum and Chemical Industry--Premium-Efficiency, Severe-Duty, Totally Enclosed Squirrel Cage Induction Motors from 0.75 kW to 370 kW (1 hp to 500 hp),*
- **IEEE C37.20.1a,** *Metal-Enclosed Low-Voltage (1000 V ac and below, 3200 V dc and below) Power Circuit Breaker Switchgear – Amendment 1: Control and Secondary*

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API API-SIEE Exam Syllabus Topics:

Topic	Details
Topic 1	• Source Inspection Performance: Covers inspector conduct, safety, project document review, report writing, and handling nonconformances and deviations during inspections.
Topic 2	• Motor Control Centers (Low to Medium Voltage): Covers design standards, materials, enclosure types, breakers, amp capacity, cable entry, and grounding components for MCCs.
Topic 3	• Electrical Inspection Tools and Test Equipment: Covers the tools and test equipment used by inspectors to perform electrical source inspections.
Topic 4	• Electrical Skid Mounted Equipment: Addresses inspection of skid-mounted assemblies including hazardous location equipment, grounding, cable systems, control wiring, and applicable codes.

Topic 5	• Switchgear (Low & Medium Voltage): Covers design, construction, ratings, interlocks, wiring, enclosures, bus compartments, breakers, transformers, and metering for LV and MV switchgear.
Topic 6	• Equipment Risk Assessment: Focuses on developing inspection project plans, inspection and test plans, and reviewing reports to assess equipment risk.

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API-SIEE Cram File & API-SIEE Exam Cram & API-SIEE Latest Dumps

TorrentValid is a leading platform that has been helping the API-SIEE exam candidates for many years. Over this long time period, countless API-SIEE exam candidates have passed their dream Source Inspector Electrical Equipment certification and they all got help from valid, updated, and Real API-SIEE Exam Questions. So you can also trust the top standard of TorrentValid API-SIEE exam dumps and start API-SIEE practice questions preparation without wasting further time.

API Source Inspector Electrical Equipment Sample Questions (Q33-Q38):

NEW QUESTION # 33
In addition to purchase order requirements and company standards, what document would provide the details for correct coatings application?

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

Answer: B

Explanation:
The correct answer isB. In source inspection of electrical equipment, coating quality is verified not only against thepurchase order, project specifications, and company standards, but also against thecoating manufacturer's application instructions and recommendations. These recommendations normally provide the practical details needed to achieve an acceptable coating system, such as requiredsurface 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. AQuality Plandescribes how quality activities are managed, but it does not usually contain the detailed technical application instructions. AnInspection and Test Planidentifies what will be checked and when, not how the coating should be applied.ASME BPVC Section IIaddresses material specifications and is not the governing application guide for paint systems.

NEW QUESTION # 34
Positive-pressurization and purging are based on the principle that an enclosure or room located in a classified location can:

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

Answer: B

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 # 35
According to API 541, when specified, shipping preparations shall make the equipment suitable for outdoor storage from the time of shipment for at least:

- A. twelve months.
- B. six months.
- C. three months.
- D. nine months.

Answer: B

Explanation:
The correct answer isB. UnderAPI 541, when outdoor storage protection is specified by the purchaser, the vendor's shipping preparation and preservation measures are intended to keep the motor and its accessories suitable foroutdoor storage for at least six months from the time of shipment. This requirement is important because large motors are often delivered to project sites well before installation and may remain exposed to ambient weather conditions, humidity changes, dust, and condensation risks during storage. In practical source inspection terms, this means the inspector should verify preservation measures such as protective covers, sealed openings, corrosion protection on exposed machined parts, moisture-control provisions, proper drain and breather arrangements where applicable, blocked or secured rotating elements if required, and adequate packing and marking for storage and transport. The goal is not only safe shipment, but also preservation of the motor's condition until installation and commissioning. Three months is generally too short for major project logistics, while nine and twelve months exceed the minimum duration stated in this requirement. Therefore, the API 541 minimum specified period for outdoor storage suitability after shipment issix months, makingoption Bthe verified answer.

NEW QUESTION # 36
When a deviation from specifications, drawings, codes, or standards is identified, the source inspector should FIRST treat it as:

- A. a schedule note
- B. a nonconformance
- C. a supplier observation only
- D. a warranty issue

Answer: B

NEW QUESTION # 37
Inspections, examinations, and tests must be performed in accordance with the source Inspection Test Plan, project specification, applicable codes and standards and meet:

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

Answer: D

Explanation:
The correct answer isCbecause inspections, examinations, and tests are only meaningful when their results are evaluated against definedacceptance 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 datamay provide general product information, but it is not always the contractual or governing basis for acceptance. Amanufacturer's standardmay be used internally, but it cannot override purchaser requirements or applicable codes unless specifically approved.
Commonly accepted industry practicemay guide methods, but acceptance decisions must still be based on the specified requirements and stated limits. The API guide emphasizes that it is focused onsource inspection and quality surveillance activitiesand on verification against applicable requirements rather than informal judgment alone. Therefore, inspections and tests must meetthe applicable acceptance criteria, makingoption Cthe verified answer.

NEW QUESTION # 38
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With our professional experts' unremitting efforts on the reform of our API API-SIEE guide materials, we can make sure that you can be focused and well-targeted in the shortest time when you are preparing a test, simplify complex and ambiguous contents. With the assistance of our API API-SIEE Study Guide you will be more distinctive than your fellow workers.