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## API API-SIEE Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Electrical Induction Motors: Covers design and construction standards, materials of construction, and motor testing requirements for electrical induction motors.</li></ul>
Topic 2	<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 3	<ul style="list-style-type: none"><li>Motor Control Centers (Low to Medium Voltage): Covers design standards, materials, enclosure types, breakers, amp capacity, cable entry, and grounding components for MCCs.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>Examination Methods, Tools and Equipment: Covers the inspection techniques used in the field, including dimensional, visual, electrical testing, functional testing, and coatings inspections.</li></ul>

Topic 5	<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 6	<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 7	<ul style="list-style-type: none"> <li>• Terms and Definitions: Covers the foundational terminology and definitions used throughout electrical source inspection work.</li> </ul>
Topic 8	<ul style="list-style-type: none"> <li>• Switchgear (Low &amp; Medium Voltage): 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 (Q24-Q29):

#### NEW QUESTION # 24

According to API 541, determination of efficiency and power, locked-rotor current, power factor, torque, full-load current and slip are some of the tests verified when performing a:

- A. complete test.
- B. compliance test.
- C. design test.
- D. routine test.

**Answer: A**

Explanation:

The correct answer is A because the group of performance items listed in the question—efficiency, power, locked-rotor current, power factor, torque, full-load current, and slip—belongs to a complete test for large electric motors under API 541 practice. A complete test is broader than a routine production test because it verifies the motor's full performance characteristics, not just basic manufacturing acceptability. These measurements are used to confirm that the motor meets its guaranteed operating and starting characteristics and that its electrical and mechanical performance aligns with the design and specification requirements.

A routine test is normally more limited and is intended to confirm standard production quality on each motor, such as winding resistance, insulation checks, no-load current, vibration, or similar baseline acceptance items.

A design test is generally associated with proving a design type rather than verifying all ordered motor performance data on a specific unit. A compliance test is not the best match for this defined set of performance determinations. In API-aligned source inspection, these performance verifications are associated with the complete test, making option A the correct answer.

#### NEW QUESTION # 25

According to API 541, the combined runout for areas on the shaft that are to be observed by radial vibration probes shall not exceed:

- A. 10% of allowed unfiltered peak to peak vibration amplitude or 3.2  $\mu\text{m}$  0.125 mils, whichever is greater.
- B. 25% of allowed unfiltered peak to peak vibration amplitude or 6.4  $\mu\text{m}$  0.25 mils, whichever is greater.
- C. the maximum vibration amplitude specified in the manufacturer's test criteria.
- D. 12.7  $\mu\text{m}$  0.5 mils.

**Answer: B**

Explanation:

The correct answer is D. In API 541, when a motor shaft is monitored using radial vibration probes, the probe-observed shaft surface must meet a strict combined runout limit so that the vibration reading reflects actual machine vibration rather than shaft surface irregularity, eccentricity, or electrical and mechanical runout effects. API 541 sets this limit at 25% of the allowed unfiltered peak-to-peak vibration amplitude or 6.4  $\mu\text{m}$

0.25 mils, whichever is greater. This requirement is important because excessive runout can distort probe signals and produce misleading vibration data during shop testing and acceptance.

From a source inspection standpoint, this is a critical verification item during motor testing for large rotating equipment. If the shaft finish and probe track are not within the required runout limit, the vibration measurements cannot be relied on for acceptance decisions. The API guide includes electric motors over 500 HP as a covered equipment category and emphasizes inspection and surveillance activities tied to applicable standards, testing, and verification of compliance during manufacture. Therefore, option D is the correct API

541 requirement.

### NEW QUESTION # 26

What is the purpose of a clamp meter?

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

**Answer: A**

Explanation:

The correct answer is C. A clamp meter is used to measure electrical current externally without 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's purpose is current measurement, not merely magnetic-field observation. That is why option C is the best answer.

Option A describes the operating principle in 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 as electrical systems, along with verification of testing and measurement activities as part of source inspection practice. Therefore, a clamp meter is correctly used to externally measure current flowing through a conductor, making option C the verified answer.

### NEW QUESTION # 27

Which of the following is primarily concerned with providing confidence that quality requirements will be fulfilled rather than detection and curing of problems?

- A. Inspection
- B. Quality assurance
- C. Quality control
- D. Quality planning

**Answer: B**

Explanation:

The correct answer is B because quality assurance is the function that focuses on giving confidence that the required level of quality will be achieved through planned and systematic activities. It is preventive in nature.

Rather than waiting for defects to appear and then detecting or correcting them, quality assurance establishes the framework of procedures, controls, audits, document management, qualification practices, and surveillance methods that help ensure the work is done correctly from the start.

By contrast, quality control is more directly associated with detection of defects and nonconformities through inspection, examination, and testing of the product or process output. Inspection is one part of quality control, not the broader confidence-building system. Quality planning is the activity of defining what standards, resources, acceptance criteria, and methods will be used, but it is not itself the ongoing function primarily described in the question.

In API-aligned source inspection practice, the inspector works within a quality system that relies on both assurance and control.

However, when the emphasis is on providing confidence that quality requirements will be fulfilled, the correct term is quality assurance, making option D the best answer.

### NEW QUESTION # 28

A source inspector reviewing a control panel should verify wiring against which project document as a core inspection activity?

- A. Freight invoice
- B. Employee training log
- C. Packing list only
- D. One-line wiring diagram

**Answer: D**

### NEW QUESTION # 29

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