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AICHe CCPSC Exam Syllabus Topics:

Section	Objectives
Risk-Based Process Safety (RBPS) Framework	- Contractor Management - Operational Readiness - Safe Work Practices - Management Review and Continuous Improvement - Metrics and Performance Measurement - Compliance with Standards - Conduct of Operations - Process Safety Culture - Management of Change - Emergency Management - Auditing - Incident Investigation - Asset Integrity and Reliability - Process Knowledge Management - Training and Performance Assurance - Operating Procedures - Hazard Identification and Risk Analysis

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The CCPS Process Safety Professional Certification (CCPSC) certification is one of the hottest career advancement credentials in the modern AICHe world. The CCPSC certification can help you to demonstrate your expertise and knowledge level. With only one badge of CCPSC certification, successful candidates can advance their careers and increase their earning potential. The AICHe

CCPSC Certification Exam also enables you to stay updated and competitive in the market which will help you to gain more career opportunities.

AICHE CCPS Process Safety Professional Certification Sample Questions (Q42-Q47):

NEW QUESTION # 42

Which of the following can be considered applicable inspection methods as part of an Inspection/Testing /Preventive Maintenance program under the Asset Integrity and Reliability Element? (Select all that apply)

- A. Work Orders
- B. Ultrasonic Thickness Measurements
- C. Ultrasonic Leak Detection
- D. Positive Material Identification

Answer: B,C,D

Explanation:

The correct answers are A (Ultrasonic Thickness Measurements), C (Ultrasonic Leak Detection), and D (Positive Material Identification) because these are recognized inspection and testing techniques within CCPS' s Asset Integrity and Reliability element of RBPS. This element ensures that critical equipment is designed, fabricated, installed, and maintained to perform reliably throughout its lifecycle.

Ultrasonic Thickness Measurement (UT) is a widely used non-destructive examination (NDE) method to monitor wall loss due to corrosion or erosion. It provides quantitative data that supports fitness-for-service evaluations and remaining life assessments.

Ultrasonic Leak Detection is another diagnostic tool used to identify leaks in pressurized systems, valves, and fittings. It supports early detection of loss of containment, which is critical for preventing process safety incidents.

Positive Material Identification (PMI) verifies that the correct alloy materials are installed, helping prevent failures due to incorrect material selection-especially important in environments prone to corrosion, high temperature, or hydrogen damage.

Work Orders (B) , while essential for maintenance management, are administrative controls rather than inspection or testing methods. CCPS distinguishes between execution systems (like work orders) and actual inspection techniques used to assess equipment condition.

These inspection methods collectively support proactive identification of degradation mechanisms and ensure equipment integrity is maintained.

NEW QUESTION # 43

After an incident with fatal consequences, you are requested by top management to form an investigation team. Who of the following would be the most suitable candidate to lead the company investigation?

- A. An authorized off-site company resource
- B. The lead process engineer of the plant
- C. The plant manager
- D. The integrity and maintenance supervisor
- E. A representative of the contractor that was performing the task when the accident occurred

Answer: A

Explanation:

The correct answer is D (An authorized off-site company resource) because CCPS emphasizes that serious incident investigations-especially those involving fatalities or major consequences -should be led by an individual who is independent, unbiased, and highly trained in investigation methodologies .

An off-site resource provides objectivity and impartiality , which is critical when investigating high-severity incidents. Internal personnel such as the plant manager (A), maintenance supervisor (B), or lead process engineer (C) may have direct or indirect involvement , organizational bias, or conflicts of interest that could influence findings or limit openness during interviews.

Option E (contractor representative) is also not appropriate as a leader due to potential bias and limited system-wide perspective. CCPS guidance stresses that investigation leaders should have expertise in root cause analysis techniques , strong facilitation skills, and the authority to conduct a thorough and credible investigation. Independence helps ensure that findings focus on system failures rather than individual blame , aligning with a just culture approach.

While internal personnel should be part of the investigation team for technical input, leadership by an independent, qualified individual enhances credibility, ensures rigor, and supports organizational learning and prevention of future incidents.

NEW QUESTION # 44

Which of the following conditions could indicate performance problems in a plant's Asset Integrity program?
(select all that apply)

- A. Piping handling hazardous material within a containment area is not on the inspection list
- B. An operator can identify each piece of equipment on the maintenance schedule and explain what is planned
- C. The metrics report related to Asset Integrity performance is 9 months out of date
- D. The rotating equipment is vibrating excessively

Answer: A,C,D

Explanation:

The correct answers are B, C, and D because they represent clear indicators of deficiencies in the Mechanical Integrity (Asset Integrity) program, as defined by CCPS.

Option B is correct because outdated metrics (9 months old) indicate poor performance monitoring and lack of timely oversight. CCPS stresses that asset integrity programs must use current, accurate data to track inspection, testing, and maintenance effectiveness.

Option C is also correct because excessive vibration in rotating equipment is a well-known sign of potential mechanical failure, such as imbalance, misalignment, or bearing issues. This suggests inadequate condition monitoring or maintenance practices.

Option D is critical because piping containing hazardous materials that is not included in inspection programs represents a serious gap. CCPS requires that all critical equipment be identified, risk-ranked, and included in inspection and maintenance plans. Missing such equipment indicates a breakdown in the integrity management system.

Option A reflects good practice, showing operator awareness and effective communication, not a problem.

Overall, CCPS emphasizes that effective asset integrity programs require accurate tracking, proactive monitoring, and comprehensive equipment coverage to prevent loss of containment.

NEW QUESTION # 45

An organization with strong Conduct of Operations is able to minimize: (select all that apply)

- A. The frequency of process safety incidents
- B. Misunderstanding of expectations
- C. The frequency of process safety audits
- D. The frequency of operator refresher training
- E. The normalization of deviation

Answer: A,B,E

Explanation:

The correct answers are A, C, and D because strong Conduct of Operations (CoO) ensures disciplined, consistent, and well-understood operational practices, which directly reduce errors and unsafe behaviors.

Option A (misunderstanding of expectations) is minimized because CoO emphasizes clear communication, defined roles, and standardized procedures, ensuring that operators understand exactly what is expected of them.

Option C (normalization of deviation) is also minimized. One of the key goals of CoO is to prevent gradual acceptance of unsafe practices. By enforcing strict adherence to procedures and promoting a questioning attitude, organizations avoid drifting away from safe operating limits.

Option D (frequency of process safety incidents) is reduced because consistent and disciplined operations lower the likelihood of human error, procedural violations, and unsafe conditions, all of which are major contributors to incidents.

Option B is incorrect because CoO does not aim to reduce training frequency; in fact, it may reinforce the need for ongoing training.

Option E is also incorrect because audits are a management system requirement and are not reduced by CoO.

CCPS highlights that strong Conduct of Operations promotes operational discipline, reliability, and safety, directly improving process safety performance.

NEW QUESTION # 46

Which of the following is not a leading metric for emergency management?

- A. Number of revisions to emergency response plans in past year
- B. Number of trained emergency response team members on each shift

- C. Number of actual process safety incidents in past year
- D. Number of realistic emergency response drills in past year

Answer: C

Explanation:

The correct answer is A because it represents a lagging indicator, not a leading metric.

CCPS distinguishes between leading and lagging indicators in process safety. Leading indicators are proactive measures that monitor system performance and help prevent incidents before they occur. In contrast, lagging indicators measure outcomes after an event has already happened, such as incidents, injuries, or losses.

Option A (number of actual process safety incidents in the past year) is clearly a lagging metric, as it reflects failures that have already occurred. While useful for tracking historical performance, it does not help proactively improve emergency preparedness.

Options B, C, and D are all leading indicators. The number of trained responders (B) reflects preparedness and capability. The number of plan revisions (C) indicates continuous improvement and updating of emergency procedures. The number of realistic drills (D) demonstrates active testing and validation of emergency response systems.

CCPS emphasizes that effective emergency management relies heavily on leading indicators, as they provide early insight into readiness and allow organizations to address gaps before an actual emergency occurs.

NEW QUESTION # 47

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