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Question: 1

Which of the following is generally true with regard to worksite safety inspections?

- A. Unbiased inspections are best conducted by personnel who only have a generalist's knowledge of the subject area being inspected.
- B. The most useful findings come from scheduled inspections.
- C. Inspections, by design, should always be generically oriented in nature.
- D. Inspectors are independent entities who do not have a direct affiliation with the organization or entity undergoing inspection.

Answer: D

Explanation:

Effective worksite safety inspections are usually conducted by inspectors who are independent entities that do not have a direct affiliation with the organization or entity being inspected and are likewise typically conducted by personnel who have expert-level knowledge, training, and/or experience within the subject area(s) being inspected. Furthermore, inspections can either be unscheduled or scheduled, but unscheduled inspections typically provide better insights than scheduled ones.

Question: 2

A robust incident reporting system typically includes which of the following facets?

- A. Mechanisms for filing "lessons learned"
- B. Remote electronic access capabilities in the field
- C. Clear direction on how to differentiate and properly distinguish among incident severity categories
- D. Established processes for commencing worker compensation claims

Answer: C

Explanation:

A robust incident reporting system (IRS) typically includes reporting mechanisms for properly differentiating and distinguishing between and among incident severity categories. Processes for commencing worker compensation claims and submitting "lessons learned" are typically independent of IRS functions. Remote electronic access capabilities in the field, although a desirable option if available, are not a mandatory element of such a system and are thus typically seldom implemented.

Question: 3

Which of the following is a major advantage that is characteristic of undergoing an external versus internal audit?

- A. Benchmarking of audit findings against those of competitors
- B. Higher levels of subsequent managerial engagement in response to findings
- C. More rapid initiation of corrective actions in response to discovered findings
- D. Direct national certification opportunities (e.g., International Organization for Standardization [ISO] and ANSI) are more readily available via external audit corrective action measures

Answer: A

Explanation:

A major benefit that usually results from undergoing an external audit is the attainment of benchmarking information (per audit findings) against that of industry competitors who have undergone similar audits.

Question: 4

Which of the following is often associated with frostbite of the fingers or toes?

- A. Absence of pain
- B. Fibromyalgia
- C. Chilblains
- D. Localized capillary damage to the hands and feet from high blood pressure

Answer: A

Explanation:

Frostbite is a dangerous condition that can occur as a result of prolonged exposure to extreme cold. It manifests when the temperature of body tissues falls below the freezing point of those tissues (essentially below the freezing point of water). In such instances, tissue damage usually occurs and can potentially lead to the loss of damaged toes or fingers in severe cases (digital frostbite). In addition, the victim may or may not feel pain associated with the onset of such a condition and likewise may also encounter skin that turns gray or white in color. In contrast, chilblains are another type of health hazard that can occur from overexposure to cold; however, these usually result from a combined exposure to cold and humidity and are typically depicted by toe redness, inflammation, itching, and occasional blistering.

Question: 5

Besides lead, which of the following is also typically utilized as a robust shielding material for protection against gamma or X-ray radiation?

- A. Aluminum
- B. Water
- C. Lithium

D. Beryllium

Answer: B

Explanation:

Light metals such as aluminum, lithium, and beryllium are typically not employed as effective shielding materials for protection against exposure to gamma or X-ray radiation. The best shielding materials against these types of ionizing radiations include lead, concrete, uranium, and water.

Question: 6

Which of the following is often a typical means by which hazards can arise during the conduct of maintenance activities?

- A. Maintenance procedures are being followed in too literal of a fashion.
- B. Manufacturer recommendations are regularly superseding internally driven mandates.
- C. Maintenance schedules are not adhered to.
- D. Over-allocation of resources is selected for maintenance items.

Answer: C

Explanation:

Workplace hazards may arise in a number of different ways during the conduct of maintenance activities, including not adhering to consistent maintenance schedules; utilizing incorrect or outdated maintenance schedules; using poorly written maintenance procedures that do not clearly convey necessary step-by-step protocols; and executing work functions on systems that are not of a user-friendly design for maintenance (e.g., limited access or service locations).

Question: 7

Which of the following is NOT a widely employed method used in industry for reducing hazardous noise levels?

- A. Using sound-absorbent materials in building construction
- B. Decreasing vibrational frequencies
- C. Employing white-noise background sources for dilution
- D. Decreasing flow rates

Answer: C

Explanation:

Several methods can be deployed in the workplace for significantly reducing hazardous noise levels; such strategies can include the use of double-barrier hearing personal protective equipment (PPE), whereby both earplugs and earmuffs are worn by workers, and installation of sound-absorbent materials, decreasing vibrational frequencies and sound flow rates and redirecting sound sources away

from workers. Attempting to integrate white-noise (background) sources within a noisy work environment can actually add to gross ambient noise levels and is thus not recommended.

Question: 8

What type of glove material is widely used for protecting the hands against welding sparks?

- A. Neoprene
- B. Polyester
- C. Leather
- D. Polyethylene

Answer: C

Explanation:

Gloves made from leather or cowhide material are conventionally used for effective protection against welding sparks. Gloves made from other (synthetic) materials (e.g., neoprene or rubber) are widely used for protection against chemical agents.

Question: 9

What is the statistical median of the following data set (6, 13, 15, 15, 18, 24, 28, 33, 51, and 66)?

- A. 26.9
- B. 18 and 24
- C. 21
- D. 36

Answer: C

Explanation:

The number 21 is the statistical median of the data set: 6, 13, 15, 15, 18, 24, 28, 33, 51, and 66. If there is an even number of values in a data set (such as 10 for this case), the median is the average of the two middle values of the set. Thus, $(18+24)/2 = 21$. If there were an odd number of values, the median would be the value that has the same number of values that are both above and below it. For instance, if the data set instead consisted of the following nine values-6, 13, 15, 15, 18, 24, 33, 51 and 66-the median would be 18 because it has four values that are greater and four values that are lesser.

Question: 10

What is typically regarded as the MOST difficult challenge associated with the generation of a cost-benefit analysis?

- A. The performance of associated cost-benefit analysis risk assessments
- B. Determining how much a human-life is "worth" from a financial perspective

- C. Accurately determining potential long-term cost savings of a proposed safety enhancement
- D. Substantiating design-basis criteria

Answer: B

Explanation:

Determining how much monetary value to place on a human life is usually regarded as the most difficult challenge associated with the rendering of a cost-benefit analysis. Other facets such as the performance of associated risk assessments, determining long-term cost savings of proposed safety enhancements, and formulating or defending design-basis criteria, however, can also exhibit a certain degree of inherent difficulty.

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