

Construction and Industry

*BCSP-STS
Safety Trained Supervisor (BCSP)*

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Question: 1

A fall arrest system does which of the following?

- A. Prevents employees from falling off an unprotected edge
- B. Decelerates a falling employee before they strike the lower level
- C. Covers a skylight to prevent an employee falling through the hole
- D. Allows employees to work at heights using both hands

Answer: B

Explanation:

29 CFR 1910.140 defines a personal fall arrest system as a system consisting of a body harness, anchorage, and connector "used to arrest [or stop] an employee in a fall from a walking-working surface." The connector consists of a deceleration device, lanyard, lifeline, or a combination of these.

Question: 2

What are the two components of the fire tetrahedron that a fire safety program is designed to reduce or eliminate?

- A. Oxygen and chain reaction
- B. Oxygen and energy
- C. Oxygen and fuel
- D. Fuel and energy

Answer: D

Explanation:

A fire safety plan is designed to reduce or eliminate the fuel and energy components of the fire tetrahedron. By limiting the amount of combustible material present in any one location and separating flammable materials from other items, the fuel available to a fire is reduced. Addressing ignition sources by using non-sparking tools, installing intrinsically safe fixtures in fuel storage areas, and prohibiting smoking near fuel sources removes the energy needed to initiate a fire.

Question: 3

What are an employer's responsibilities as they relate to fire protection systems?

- A. Install and verify
- B. Certify and upgrade the system as necessary
- C. Inspect, maintain, and repair
- D. None; upon installation, fire systems are approved until activated

Answer: C

Explanation:

It is the responsibility of the employer to regularly inspect, maintain, and repair fire protection systems, including portable fire extinguishers and automatic suppression systems. The Fire Code outlines the inspection frequency for the various system components. An employer should hire certified contractors for any repairs or required recertification's due to the specialized nature of fire systems.

Question: 4

What is the term for a person's strong adherence to their principles?

- A. Integrity
- B. Dedication
- C. Loyalty
- D. Morality

Answer: A

Explanation:

An individual who demonstrates a strong adherence to their principles is described as having integrity. Integrity can also be described as honesty and is applied evenly in all situations, without condition. Morality is the aspect of determining what is right or wrong. Thus, morality will guide integrity.

Question: 5

Which of the following is used to evaluate an emergency response and identify what worked well and what needs improvement?

- A. Lessons learned
- B. Root cause analysis
- C. Hazard assessment
- D. Emergency action plan

Answer: A

Explanation:

A lessons learned post-incident review is a method used to evaluate the efficacy of an emergency response plan. The review requires all stakeholders and participants to evaluate what elements functioned well and where there are areas for improvement. Areas identified for improvement can include the need for additional resources, including equipment or personnel, rewriting portions of the plan, or additional training.

Question: 6

Identify the least effective method of preventing exposure to toxic welding fumes.

- A. Employing an air-purifying respirator
- B. Operating a local exhaust ventilation system
- C. Using flux that is low in heavy metal content
- D. Allowing welding to last for only two (2) hours per day

Answer: A

Explanation:

An air-purifying respirator is a piece of personal protective equipment (PPE) used to control the exposure to toxic fumes. PPE is considered the least effective method to control a hazard because it does not address the hazard itself, but simply installs a barrier between the employee and the hazard and is dependent on proper use and selection to be effective. Preferred methods include eliminating the hazard by using low-toxicity flux, removing the hazardous fumes by ventilation, or a policy that reduces the time a worker is exposed to a hazard.

Question: 7

What is the purpose of wearing bright colors near heavy equipment?

- A. Protection from the heat
- B. Protection from rain
- C. Increased ability to recognize who is allowed on site
- D. Increased visibility

Answer: D

Explanation:

Heavy equipment presents a hazard as a result of obstructed visibility. Due to the size relative to the cab, location of the cab, or overall size of the vehicle, there is an increased risk of striking workers near the equipment. High visibility clothing increases the chance of the operator seeing and thereby avoiding collisions or impacts with workers in the area.

Question: 8

How often must insulated electrical gloves be tested?

- A. Once each year
- B. Quarterly
- C. Twice each year
- D. Monthly

Answer: C

Explanation:

Per 29 CFR 1910.137, rubber insulating gloves used for protection against high voltage exposure must be tested twice each year.

Question: 9

Which of the following will an industrial hygienist use to identify potential inhalation hazards?

- A. Audiometer
- B. Air sampling
- C. Anemometer
- D. Calorimetry

Answer: B

Explanation:

Air sampling is the process of collecting a portion of air in a particular environment and subjecting it to laboratory analysis. The resultant information is used by an industrial hygienist to identify what, if any, controls are necessary to eliminate or reduce the chemicals that may be inhaled by the workers in that area.

Question: 10

Always wearing required personal protective equipment; adhering to safety procedures; and equally enforcing safety policies to management, employees, and visitors is an example of:

- A. Equity.
- B. Anti-bias.
- C. Leadership.
- D. Integrity.

Answer: C

Explanation:

Safety leadership is the quality of leading by example. Leadership is demonstrated by what the safety professional does and how they do it. The safety professional does not lead as if they are above the rules, but rather encourages others to follow by adhering to and enforcing the rules from the top down. Integrity, which is always doing the right thing, is a common quality of good leaders.

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