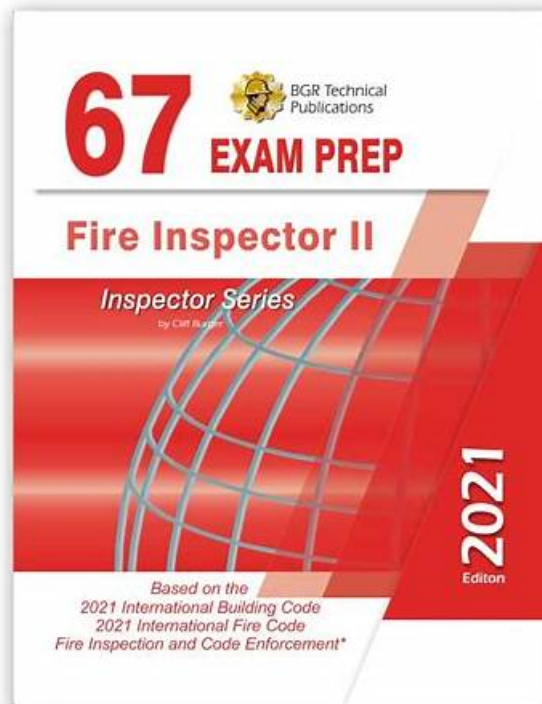


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International Code Council 67 - Fire Inspector II Exam Sample Questions (Q66-Q71):

NEW QUESTION # 66

The maximum combined quantity of Class II and III liquids which may be stored in a flammable liquids storage cabinet is ___ gallons.

- A. 0
- B. 1
- **C. 2**
- D. 3

Answer: C

Explanation:

Reference to Flammable Liquids Storage Cabinet Requirements:

According to The International Fire Code (IFC 2021), Section 5704.3.2 and NFPA 30 (Flammable and Combustible Liquids Code), Section 9.5.3, the maximum amount of Class II and Class III liquids that can be stored in a flammable liquids storage cabinet is 120 gallons.

This limit ensures safe containment, fire protection, and reduced risk of liquid ignition or spillage.

Understanding Class II and III Liquids:

Class II liquids: Flash point between 100°F and 140°F (e.g., diesel fuel, kerosene).

Class III liquids: Flash point above 140°F (e.g., motor oil, cooking oils).

While these liquids are less volatile than Class I liquids, they still pose a fire risk, requiring proper storage in approved cabinets.

Clarification of Incorrect Answer Choices:

A: 10 gallons # Incorrect

Too low; IFC and NFPA allow up to 120 gallons in storage cabinets.

B: 60 gallons # Incorrect

This is the maximum for Class I liquids, but Class II and III liquids are allowed up to 120 gallons.

D: 240 gallons # Incorrect

Exceeds the allowable limit per IFC 5704.3.2 and NFPA 30, which set the maximum at 120 gallons per cabinet.

Conclusion:

The correct and verified answer is C (120 gallons) as per IFC 5704.3.2 and NFPA 30, ensuring compliance with flammable liquids storage safety standards.

NEW QUESTION # 67

Given: In organic coating processes where Class I liquids are exposed to the air, Class I, Division I electrical installations are required to be outside the immediate vicinity of pumps or equipment.

"Immediate vicinity" means in addition to a vertical distance a zone extending from the vapor liberation point ___ ft. horizontally in all directions.

- A. 0
- B. 1
- **C. 2**
- D. 3

Answer: C

Explanation:

In organic coating processes where Class I liquids are exposed to air, fire codes require Class I, Division I electrical installations in hazardous locations to prevent ignition of flammable vapors.

The "immediate vicinity" around pumps or equipment where vapors may accumulate extends 10 feet horizontally from the vapor liberation point in all directions.

Reference to Fire Inspector Documentation:

1. 2021 International Fire Code (IFC) - Section 1503.2.1 (Electrical Installations in Organic Coating Processes) IFC 1503.2.1 requires that electrical components must be rated for Class I, Division I within 10 feet of vapor sources.

This prevents ignition hazards in locations with flammable vapors.

2. NFPA 33 - Standard for Spray Application Using Flammable or Combustible Materials (2021 Edition) - Section 6.5.2 NFPA 33, Section 6.5.2 states that a 10-foot horizontal zone is considered hazardous and requires Class I, Division I electrical installation.

Detailed Explanation of Answer Choices:

Option A (Incorrect): 5 feet is too short and does not provide sufficient protection from vapor migration.

Option B (Correct): 10 feet is the correct required distance per IFC 1503.2.1 and NFPA 33.

Option C (Incorrect): 20 feet is beyond the required hazardous zone.

Option D (Incorrect): 50 feet is excessive and not required by code.

Thus, the correct and verified answer is: B. 10.

NEW QUESTION # 68

Flammable medical gas supply cylinders located inside of a building must be stored in a separate room of not less than ___ fire-resistive construction when exceeding 200 cu. ft.

- A. 2-hour
- B. 3-hour
- C. 1-hour
- D. 1/2-hour

Answer: A

Explanation:

The storage of flammable medical gas supply cylinders inside a building is regulated by 2021 International Fire Code (IFC) Section 5306 - Medical Gas Systems.

IFC Section 5306.2.1 - Storage of More Than 200 Cubic Feet of Medical Gases:

When the quantity of flammable medical gas exceeds 200 cubic feet, it must be stored in a separate room with a minimum 2-hour fire-resistance rating.

The room must also comply with ventilation and explosion control requirements per NFPA 99 (Healthcare Facilities Code).

Why Other Options Are Incorrect?

A: 1/2-hour - Insufficient fire resistance for high-risk gas storage.

B: 1-hour - Does not meet the minimum 2-hour requirement set by the IFC.

D: 3-hour - Exceeds the minimum required by code; the correct requirement is 2-hour fire-resistive construction.

NEW QUESTION # 69

Conditions that may exist and warrant a modification include all of the following except where the:

- A. special individual reason makes the strict letter of the code impractical.
- B. modification does not lessen health, life, and fire safety.
- C. modification is in compliance with the intent and purpose of the code.
- D. modification requires the use of an alternative building material.

Answer: D

Explanation:

Reference to Code Modifications and Equivalency Requirements:

According to International Fire Code (IFC 2021), Section 104.10, modifications may be granted if they meet the intent of the code and do not reduce fire and life safety.

The NFPA 1 (Fire Code) and NFPA 101 (Life Safety Code) also allow modifications under specific conditions, provided safety is maintained.

Understanding the Exception in the Question:

The question asks for conditions that DO NOT warrant a modification.

Using an alternative building material alone does not justify a modification unless it meets equivalent safety standards.

Code modifications are granted based on maintaining or improving safety, not simply changing materials.

Clarification of Incorrect Answer Choices:

A: Modification does not lessen health, life, and fire safety # Correct condition for modification, so incorrect answer IFC 104.10 allows modifications as long as safety is not compromised.

C: Modification is in compliance with the intent and purpose of the code # Correct condition for modification, so incorrect answer Codes provide flexibility if the intent of fire and life safety is still met.

D: Special individual reason makes the strict letter of the code impractical # Correct condition for modification, so incorrect answer Some codes allow modifications if strict compliance is impractical, provided alternative safety measures are implemented.

Conclusion:

The correct and verified answer is B (modification requires the use of an alternative building material) because material substitution alone does not justify a modification unless safety is maintained, as per IFC 104.10 and NFPA standards.

NEW QUESTION # 70

What is the maximum number of students permitted in a classroom that measures 20 ft. x 30 ft., and which contains four fixed 4 ft. x 8 ft. tables?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

Explanation:

To determine the maximum number of students permitted in a classroom, we must follow the occupant load calculation based on the 2021 International Building Code (IBC) and International Fire Code (IFC).

Step 1: Calculate the Room Area

The classroom measures 20 ft. x 30 ft., so the total area is:

$$20 \times 30 = 600 \text{ sq. ft. } 20 \times 30 = 600 \text{ sq. ft.}$$

Step 2: Subtract the Area Occupied by Fixed Tables

Each table measures 4 ft. x 8 ft., so its area is:

$$4 \times 8 = 32 \text{ sq. ft. per table } 4 \times 8 = 32 \text{ sq. ft. per table}$$

$$32 \times 4 = 128 \text{ sq. ft. occupied by tables } 32 \times 4 = 128 \text{ sq. ft. occupied by tables}$$

$$32 \times 4 = 128 \text{ sq. ft. occupied by tables}$$

Step 3: Determine the Usable Space for Students

$$600 - 128 = 472 \text{ sq. ft. available } 600 - 128 = 472 \text{ sq. ft. available}$$

$$472 \div 20 = 23.6$$

Since the occupant load must be rounded down, the maximum number of students is 24.

Reference to Fire Inspector Documentation:

1. 2021 International Building Code (IBC) - Table 1004.5 (Occupant Load Factor) A classroom with tables and chairs requires 20 sq. ft. per occupant.

This method ensures compliance with egress and fire safety requirements.

2. 2021 International Fire Code (IFC) - Section 1004.1 (Occupant Load Determination) The IFC states that occupant load is based on net usable floor area and must follow IBC Table 1004.5.

Detailed Explanation of Answer Choices:

Option A (Incorrect): 12 students would be too low based on the calculations.

Option B (Correct): 24 students is the accurate calculation following IBC 1004.5.

Option C (Incorrect): 30 students would exceed the available space per code.

Option D (Incorrect): 40 students is far above the allowed maximum.

Thus, the correct and verified answer is: B. 24.

NEW QUESTION # 71

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