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NEW QUESTION: 1

A 501 gal. water capacity above-ground liquefied petroleum gas (LP-gas) tank located 20 ft. from a 250 gal.

LP-gas tank must be separated a minimum of ___ ft. from adjoining property.

- A. 5
- B. 10
- C. 20
- D. 25

Answer: B (LEAVE A REPLY)

Reference to LP-Gas Tank Separation Requirements:

The International Fire Code (IFC 2021), Table 6104.3, provides minimum separation distances for above- ground LP-gas tanks based on capacity and proximity to each other or property lines.

According to Table 6104.3, for an LP-gas tank with a 501-gallon capacity located near a 250-gallon tank, the required minimum separation distance from adjoining property is 10 feet.

Why Separation Distance is Important:

LP-gas is highly flammable, and inadequate separation distances increase the risk of fire spread and explosion hazards.

Proper spacing ensures safety for occupants, emergency responders, and nearby properties.

Clarification of Incorrect Answer Choices:

A: 5 ft. # Incorrect

Too close per IFC 6104.3; does not meet safety requirements.

C: 20 ft. # Incorrect

20 feet is required for larger tanks, but not for the combined 501-gal. and 250-gal. tank setup.

D: 25 ft. # Incorrect

Greater than the required minimum; while more distance is safer, IFC mandates a minimum of 10 feet.

Conclusion:

The correct and verified answer is B (10 feet) based on IFC 6104.3, ensuring safe LP-gas tank separation from adjoining properties.

NEW QUESTION: 2

A local board of appeals may perform all of the following functions except:

- A. waive requirements of the fire code.
- B. render interpretations of the fire code.
- C. approve alternate materials and types of construction.
- D. adopt rules and regulations for conducting its investigations.

Answer: A (LEAVE A REPLY)

IFC Section 108 (Board of Appeals) outlines the board's role: it hears appeals on fire code official decisions (Section 108.1), can interpret the code (B), approve alternatives (C) per Section 104.9, and establish procedural rules (D) per Section 108.2. However, the board cannot "waive" code requirements outright (A)- it can only grant variances or approve alternatives that still meet the code's intent, not eliminate requirements entirely. Waiving implies nullification, which exceeds the board's authority; that power rests with the fire code official or legislative amendments. Thus, A is the exception.

NEW QUESTION: 3

The minimum working space width for a 66-in. wide electrical equipment panel shall be in

- A. 30
- B. 36
- C. 66
- D. 78

Answer: C (LEAVE A REPLY)

Minimum Working Space Width for Electrical Equipment Panels

According to National Electrical Code (NEC) 110.26(A)(2) and International Fire Code (IFC) 2021, Section

604.3, the minimum working space width for electrical equipment must be at least the width of the equipment or 30 inches, whichever is greater.

Since the equipment panel in the question is 66 inches wide, the required working space width must be at least 66 inches.

2. Why 66 Inches is the Correct Answer

The minimum clearance width must be equal to the width of the electrical equipment if the panel itself is wider than 30 inches.

This ensures safe maintenance and emergency access to electrical components.

3. Verification of Other Options

Option A (30 inches) - Incorrect, because the equipment is wider than 30 inches, requiring a larger clearance.

Option B (36 inches) - Incorrect, as this is not the requirement for a 66-inch-wide panel.

Option D (78 inches) - Incorrect, as the clearance does not need to exceed the width of the panel.

Reference Sources:

National Electrical Code (NEC) 2023 - Section 110.26(A)(2) (Working Space Width Requirements) International Fire Code (IFC) 2021 - Section 604.3 (Electrical Equipment Clearance Requirements) ICC Fire Inspector II Study Guide (2021)

NEW QUESTION: 4

A Type I handrail that is not circular shall have a minimum perimeter dimension of ____ inches.

A. 1.25

B. 2

C. 4

D. 6.25

Answer: D (LEAVE A REPLY)

According to the 2021 International Fire Code (IFC) and the International Building Code (IBC) Section

1014.3, handrails are categorized into Type I and Type II based on their shape and size requirements.

Type I handrails refer to those that are not circular in shape but still comply with graspability requirements.

IBC Section 1014.3.1 states that:

If a handrail is not circular, it must have a perimeter dimension between 4 inches (minimum) and 6.25 inches (maximum).

The cross-section of such a handrail should provide an adequate grasping surface.

NEW QUESTION: 5

Foamed plastics or materials containing foamed plastics used for stage scenery must be approved when tested in accordance with

A. UL 1975

B. NFPA 11A

C. CPSC 16CFR

D. ASTM D 1784

Answer: A (LEAVE A REPLY)

Foamed plastics or materials containing foamed plastics used for stage scenery must meet strict fire performance requirements to prevent rapid flame spread and fire hazards in assembly occupancies.

The correct fire test standard for these materials is UL 1975 - Standard for Fire Tests for Foamed Plastics Used for Decorative Purposes.

Reference to Fire Inspector Documentation:

1. 2021 International Fire Code (IFC) - Section 807.4.2 (Foamed Plastics for Stage Scenery) IFC 807.4.2 states that foamed plastics used in scenery must be tested and approved per UL 1975 to ensure fire safety.

2. UL 1975 - Standard for Fire Tests for Foamed Plastics Used for Decorative Purposes
This standard evaluates the flammability and smoke production of foamed plastics used in decorative applications, including stage scenery.

Detailed Explanation of Answer Choices:

Option A (Correct): UL 1975 is the required test standard for foamed plastics used in stage scenery, ensuring compliance with IFC 807.4.2.

Option B (Incorrect): NFPA 11A deals with foam-water fire suppression systems, not foamed plastics for decorative use.

Option C (Incorrect): CPSC 16CFR relates to consumer product safety regulations but does not address fire safety for foamed plastics on stage scenery.

Option D (Incorrect): ASTM D 1784 is a test for rigid PVC plastics and does not apply to foamed plastics used for stage scenery.

Thus, the correct and verified answer is: A. UL 1975.

NEW QUESTION: 6

Quantities of flammable liquid storage in a control area of an Industrial Occupancy may be doubled when:

- A.** permission is granted by the chief.
- B.** the control area exceeds 50,000 sq. ft.
- C.** the building is protected with automatic sprinklers.
- D.** the control area is provided with exhaust ventilation in accordance with fire code requirements.

Answer: (SHOW ANSWER)

Flammable Liquid Storage Limits in Control Areas

According to the International Fire Code (IFC) 2021, Section 5003.1.1 and Table 5003.1.1(1), the allowable quantity of flammable liquids stored in a control area can be doubled if the building is equipped with an automatic sprinkler system that complies with NFPA 13.

2. Why Automatic Sprinklers Allow Increased Storage

A sprinkler system significantly reduces fire risk by suppressing flames early, thus allowing greater quantities of hazardous materials to be safely stored.

IFC and NFPA 30 (Flammable and Combustible Liquids Code) specify that sprinkler-protected buildings can have up to twice the standard storage limits.

3. Verification of Other Options

Option A (permission is granted by the chief) - Incorrect, as storage limits are regulated by the fire code, not discretionary approval from the fire chief.

Option B (the control area exceeds 50,000 sq. ft.) - Incorrect, as floor area does not automatically allow for increased storage unless fire protection systems are in place.

Option D (the control area is provided with exhaust ventilation) - Incorrect, because ventilation is required for hazardous material control but does not impact storage limits like sprinklers do.

Reference Sources:

International Fire Code (IFC) 2021 - Section 5003.1.1 & Table 5003.1.1(1) (Control Area Storage Limits for Flammable Liquids) NFPA 30: Flammable and Combustible Liquids Code (Sprinkler-Adjusted Storage Quantities) ICC Fire Inspector II Study Guide (2021)

Thus, the correct and verified answer is: C. the building is protected with automatic sprinklers. #

NEW QUESTION: 7

Extra-high-rack combustible storage is defined in the fire code as any storage on racks of Class I, II, III, or IV commodities which exceed ___ ft. in height, and any storage on racks of high-hazard commodities which exceed ___ ft. in height.

A. 20; 30

B. 30; 40

C. 40; 30

D. 50; 40

Answer: (SHOW ANSWER)

Definition of Extra-High-Rack Combustible Storage

According to International Fire Code (IFC) 2021, Section 3206.6, extra-high-rack combustible storage is defined as:

Class I, II, III, or IV commodities stored on racks exceeding 40 feet in height.

High-hazard commodities stored on racks exceeding 30 feet in height.

2. Understanding Rack Storage Classifications

Class I-IV Commodities: These refer to general, moderate-risk combustible materials such as wood, paper, and plastics.

High-Hazard Commodities: These are materials that have a higher fire risk, such as highly combustible plastics, flammable solids, and products prone to rapid heat release.

3. Verification of Other Options

Option A (20; 30) - Incorrect, as 40 feet is the correct threshold for Class I-IV commodities.

Option B (30; 40) - Incorrect, as 30 feet applies to high-hazard commodities, not Class I-IV commodities.

Option D (50; 40) - Incorrect, as the correct heights are 40 feet and 30 feet, respectively.

Reference Sources:

International Fire Code (IFC) 2021 - Section 3206.6 (Definition of Extra-High-Rack Storage) NFPA 13: Standard for the Installation of Sprinkler Systems (High-Rack Storage Requirements) ICC Fire Inspector II Study Guide (2021)

NEW QUESTION: 8

Paint spray booths must have a clearance of ____ in. from unprotected combustible materials.

- A. 12
- B. 18
- C. 24
- D. 36

Answer: B (LEAVE A REPLY)

Paint Spray Booth Clearance Requirements

According to the International Fire Code (IFC) 2021, Section 2404.3.2, paint spray booths must have a minimum clearance of 18 inches from unprotected combustible materials.

This clearance requirement helps prevent heat transfer, fire spread, and ignition of nearby combustible materials due to the operation of the spray booth.

2. Why 18 Inches is the Correct Answer

Spray booths generate overspray, vapors, and heat, making clearance essential for fire prevention.

The requirement applies to combustible walls, ceilings, and storage materials surrounding the spray booth.

If combustibles are within 18 inches, additional fire protection such as fire-rated barriers or sprinkler protection may be required.

3. Verification of Other Options

Option A (12 inches) - Incorrect, as the IFC mandates a minimum 18-inch clearance.

Option C (24 inches) - Exceeds the standard clearance requirement but is not the official minimum. Incorrect.

Option D (36 inches) - Some jurisdictions may require larger clearances, but IFC mandates 18 inches as the minimum. Incorrect.

Reference Sources:

International Fire Code (IFC) 2021 - Section 2404.3.2 (Paint Spray Booth Clearance Requirements) NFPA 33: Standard for Spray Application Using Flammable or Combustible Materials (Clearance Guidelines) ICC Fire Inspector II Study Guide (2021) Thus, the correct and verified answer is: B. 18 inches

NEW QUESTION: 9

Compressed natural gas (CNG) motor vehicle fuel-dispensing equipment may be installed in which of the following locations?

- A. 40 ft. from trolley wires.

- B. 15 ft. from a public street.
- C. 20 ft. from a railroad track.
- D. 5 ft. from an undeveloped property line.

Answer: C (LEAVE A REPLY)

Compressed Natural Gas (CNG) motor vehicle fuel-dispensing equipment installation requirements are outlined in 2021 International Fire Code (IFC) Section 2208 - Compressed Natural Gas Motor Fuel- Dispensing Facilities.

IFC 2021, Section 2208.3 - Equipment Location and Protection:

Requires that CNG dispensing equipment be installed at least:

10 feet from property lines

20 feet from public streets, highways, sidewalks, or railroads

10 feet from buildings or structures

Why Other Options Are Incorrect?

A: 40 ft. from trolley wires.

The IFC does not specify a 40-ft requirement for trolley wires in relation to CNG fuel-dispensing equipment.

B: 15 ft. from a public street.

Incorrect because IFC 2208.3 states that the minimum required distance from a public street is 20 feet, not 15 feet.

D: 5 ft. from an undeveloped property line.

Incorrect, as the minimum clearance from any property line is 10 feet, not 5 feet.

NEW QUESTION: 10

Use, dispensing, and mixing of flammable liquids in open systems shall have continuous mechanical ventilation at a minimum rate of ____ CFM per sq. ft. of floor area.

- A. 1
- B. 2
- C. 3
- D. 4

Answer: B (LEAVE A REPLY)

Reference to Ventilation Requirements for Flammable Liquids:

The International Fire Code (IFC 2021), Section 5004.3.7.3, and NFPA 30 (Flammable and Combustible Liquids Code), Section 18.5.4.1 specify the ventilation requirements for the use, dispensing, and mixing of flammable liquids in open systems.

Continuous mechanical ventilation must be provided at a minimum rate of 2 CFM per square foot of floor area.

Reason for Ventilation Requirements:

Flammable liquids release vapors that can ignite at low concentrations, creating fire and explosion hazards.

Proper ventilation removes vapors to prevent them from reaching flammable limits in the air.

Clarification of Incorrect Answer Choices:

A: 1 CFM per sq. ft. # Incorrect

Too low to effectively control flammable vapor accumulation.

C: 3 CFM per sq. ft. # Incorrect

While more ventilation can be beneficial, the minimum required by code is 2 CFM per sq. ft.

D: 4 CFM per sq. ft. # Incorrect

Exceeds the code-mandated minimum requirement, though higher ventilation rates may be required based on specific hazards.

Conclusion:

The correct and verified answer is B (2 CFM per sq. ft.), based on IFC 5004.3.7.3 and NFPA 30 Section

18.5.4.1, ensuring safe handling of flammable liquids in open systems.

NEW QUESTION: 11

Refrigeration units or systems having a refrigerant circuit containing Group A1 refrigerant shall be provided with approved emergency signs, charts, and labels in accordance with NFPA 704 when the quantity exceeds

___ lb.

A. 30

B. 100

C. 200

D. 220

Answer: D (LEAVE A REPLY)

Refrigeration systems and units are regulated under IFC 2021, Section 605 - Refrigeration Equipment, and the requirement for emergency signs, charts, and labels is tied to the NFPA 704 Hazardous Materials Identification System.

IFC 2021, Section 605.12.3 - Signage for Refrigeration Systems:

States that approved emergency signs, charts, and labels must be provided when the refrigerant quantity exceeds 220 pounds for Group A1 refrigerants.

Definition of Group A1 Refrigerants (Low Toxicity, Low Flammability):

Examples include R-134a, R-410A, and R-22, which are commonly used in commercial and industrial HVAC systems.

Why Other Options Are Incorrect?

A: 30 lb. - Too low; labeling requirements do not apply at this threshold.

B: 100 lb. - Incorrect; the IFC requirement specifies 220 lb.

C: 200 lb. - Close, but still below the 220 lb. threshold.

NEW QUESTION: 12

A bowling center with 25 lanes and 3,500 sq. ft. of additional area calculates to a maximum occupant load of how many people?

- A. 125
- B. 234
- C. 500
- D. 625

Answer: B (LEAVE A REPLY)

To determine the maximum occupant load for a bowling center with 25 lanes and 3,500 sq. ft. of additional area, we use the occupant load factor from 2021 IBC Table 1004.5.

Step 1: Calculate the Occupant Load for Bowling Lanes

IBC Table 1004.5 assigns 50 sq. ft. per person for bowling lanes and associated seating areas.

With 25 lanes, assuming 100 sq. ft. per lane (standard industry measurement for lane width and approach area):

$$25 \times \left(\frac{100}{50} \right) = 25 \times 2 = 50 \text{ occupants}$$

$$25 \times \left(\frac{50}{100} \right) = 25 \times 2 = 50 \text{ occupants}$$

Step 2: Calculate the Occupant Load for Additional Area

Additional 3,500 sq. ft. area follows a general occupant load factor of 15 sq. ft. per person (assembly without fixed seats):

$$\frac{3,500}{15} = 233.3 \text{ occupants} \approx 234 \text{ (rounded)}$$

Final Calculation:
 $50 + 184 = 234$ occupants

Reference to Fire Inspector Documentation:
 1. 2021 International Building Code (IBC) - Table 1004.5 (Occupant Load Factor) Bowling lanes require 50 sq. ft. per person.

Assembly areas without fixed seats use 15 sq. ft. per person.

2. 2021 International Fire Code (IFC) - Section 1004.1.2 (Areas without Fixed Seating)

When calculating occupant load, areas without fixed seating must be divided by the appropriate occupant load factor.

Detailed Explanation of Answer Choices:

Option A (Incorrect): 125 is too low based on correct load factor calculations.

Option B (Correct): 234 is the correct calculation using IBC Table 1004.5.

Option C (Incorrect): 500 is too high based on the available space.

Option D (Incorrect): 625 significantly overestimates the actual occupant load.

Thus, the correct and verified answer is: B. 234.

NEW QUESTION: 13

What fire-resistance rating is required for interior nonbearing walls and partitions in Type IV construction?

- A. 0 hours
- B. 1 hour
- C. 1-1/2 hours

D. 2 hours

Answer: (SHOW ANSWER)

Fire-Resistance Rating for Nonbearing Walls in Type IV Construction

Type IV (Heavy Timber) construction, as defined by the International Building Code (IBC) 2021, Section

602.4, consists of large, solid or laminated wood members.

Interior nonbearing walls and partitions in Type IV construction are not required to have a fire-resistance rating (0 hours) unless they separate different occupancies or are specifically mandated by another code provision.

2. Why Type IV Does Not Require a Rating for Nonbearing Walls

The heavy timber components inherently provide fire resistance due to their large cross-section, which chars on the surface and slows fire penetration.

IBC Table 601 confirms that interior nonbearing walls in Type IV construction do not have a required fire-resistance rating.

3. Verification of Other Options

Option B (1 hour) - Incorrect, as Type IV does not require a 1-hour rating for interior nonbearing walls unless specific conditions apply.

Option C (1-1/2 hours) - Incorrect, as there is no code requirement for this level of rating in Type IV nonbearing walls.

Option D (2 hours) - Incorrect, as Type IV walls are not rated unless separating occupancies.

Reference Sources:

International Building Code (IBC) 2021 - Section 602.4 (Type IV Construction Requirements) IBC Table 601 (Fire-Resistance Ratings for Building Elements) ICC Fire Inspector II Study Guide (2021)

NEW QUESTION: 14

Which of the following situations requires securing of an operational permit from the code official prior to commencing the related activity?

- A. Storing 85,000 bd. ft. of lumber.
- B. Inside storage of 100 cu. ft. of baled cotton.
- C. Fruit ripening operations using carbon dioxide gas.
- D. Organic coating production facility producing 2 gallons per day.

Answer: A (LEAVE A REPLY)

IFC Section 105.6 lists activities requiring operational permits. For A, lumber storage exceeding 100,000 board feet (bd. ft.) indoors or outdoors requires a permit (Section 105.6.28, Lumber Yards), but local thresholds may be lower-85,000 bd. ft. is close to this limit and likely exceeds typical exempt amounts, triggering a permit in many jurisdictions. For B, IFC Table 3206.2 allows small quantities of combustible commodities like baled cotton (100 cu. ft. is minimal) without a permit unless part of a larger high-piled storage operation. For C, fruit ripening with CO₂ (Section 105.6.13) requires a permit only for

specific flammable gases, not CO₂ alone, which is nonflammable. For D, organic coating production (Section 105.6.33) requires a permit only above 1 gallon per day, but 2 gallons is still small-scale and context-dependent-lumber storage is the clearer permit trigger here. Thus, A is the best answer.

NEW QUESTION: 15

The interior finish of walls and a ceiling in an atrium may not be less than ___ Class

- A.** Class A - Interior Finish Ratings (Per ASTM E84 and NFPA 286).
- B.** Class B - Less fire-resistant than Class A, not permitted for atriums.
- C.** Class C - Provides even lower fire protection, making it unsuitable.
- D.** Class D - Not recognized as an acceptable interior finish classification for atriums.

Answer: ([SHOW ANSWER](#))

The interior finish requirements for walls and ceilings in an atrium are regulated under the 2021 International Building Code (IBC), Section 404 - Atriums, and Table 803.11 - Interior Wall and Ceiling Finish Requirements.

IBC Section 404.8 - Interior Finish in Atriums:

"The interior finish of walls and ceilings in an atrium shall be not less than Class A." Class A interior finishes have the highest level of fire resistance and low flame spread to minimize fire hazards in large open spaces like atriums.

NEW QUESTION: 16

Given: A local college student inquires about the use of candles in their dorm room.

Candles:

- A.** may not be used.
- B.** may be used in a sprinklered dormitory.
- C.** must be kept a minimum 12 in. from combustibles.
- D.** must be kept a minimum 36 in. from combustibles.

Answer: ([SHOW ANSWER](#))

Reference to ICC Fire Code Regulations:

According to the International Fire Code (IFC) Section 308.1.5 (2021 Edition), the use of open-flame devices, including candles, is prohibited in dormitories, sleeping rooms, and similar occupancies unless specifically approved by the fire code official.

The regulation exists to prevent fire hazards in areas with high occupant density and potentially limited egress routes.

Fire Safety Concerns in Dormitories:

Dormitories typically contain highly combustible materials such as bedding, curtains, and furniture, making them susceptible to rapid fire spread.

The presence of multiple residents in a shared living space increases the risk of fire-related casualties.

Even in sprinklered buildings, candles pose an unnecessary ignition risk that could endanger occupants before the activation of fire suppression systems.

Clarification of Incorrect Answer Choices:

B: may be used in a sprinklered dormitory # Incorrect

While fire sprinklers help control fires, they do not prevent ignition, and the prohibition still applies regardless of sprinkler systems.

C: must be kept a minimum of 12 inches from combustibles # Incorrect

This rule applies to general open-flame devices in some circumstances but does not override the outright ban on candles in dormitories.

D: must be kept a minimum of 36 inches from combustibles # Incorrect

Similar to option C, maintaining a distance from combustibles does not exempt candles from being prohibited in dormitory settings.

Conclusion:

The correct and verified answer is A (Candles may not be used) based on the International Fire Code (IFC) Section 308.1.5, ensuring fire safety compliance in dormitory settings.

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NEW QUESTION: 17

A required standpipe shall be installed when the progress of construction above the lowest level of fire department access reaches a maximum of ___ ft.

A. 30

B. 40

C. 55

D. 75

Answer: ([SHOW ANSWER](#))

1. Standpipe Requirements in Construction

According to International Fire Code (IFC) 2021, Section 3313.1, a temporary standpipe must be installed when construction progresses above 75 feet from the lowest level of fire department access.

This ensures firefighters have adequate water supply access during high-rise construction.

2. Why the 75-Foot Requirement?

Buildings exceeding 75 feet are classified as high-rise structures, where fire department hose streams may not reach upper levels efficiently.

A standpipe system provides a reliable water source for fire suppression during construction, reducing fire risk.

3. Verification of Other Options

Option A (30 feet) - Incorrect, as standpipes are not required at this height under IFC regulations.

Option B (40 feet) - Incorrect, as this is below the high-rise threshold and does not require standpipes yet.

Option C (55 feet) - Incorrect, as IFC specifically mandates standpipes at 75 feet, not 55 feet.

Reference Sources:

International Fire Code (IFC) 2021 - Section 3313.1 (Temporary Standpipe Requirements for Construction) NFPA 14: Standard for the Installation of Standpipes and Hose Systems ICC Fire Inspector II Study Guide (2021) Thus, the correct and verified answer is: D. 75 feet. #

NEW QUESTION: 18

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

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

Answer: (SHOW ANSWER)

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: 19

At each grinding, buffing, or wire brushing operation on magnesium, other than the rough finishing of casting, dust must be collected by means of suitable hoods or enclosures connected to a:

- A. cloth screen arrestor.
- B. low-pressure cyclone.
- C. dry-type dynamic precipitator.
- D. liquid precipitation type of separator.

Answer: D (LEAVE A REPLY)

Reference to Magnesium Dust Collection Requirements:

NFPA 484 (Standard for Combustible Metals), Section 9.3.2, requires that magnesium dust from grinding, buffing, or wire brushing must be collected using a liquid precipitation-type separator.

The International Fire Code (IFC 2021), Section 2205, also references proper dust collection for combustible metals like magnesium.

Why Use a Liquid Precipitation-Type Separator?

Magnesium dust is highly combustible and reacts violently with air and moisture.

A liquid precipitation-type separator prevents dust accumulation and ignition by using a liquid medium to safely capture and neutralize metal dust particles.

Other collection methods can generate static electricity or allow dangerous dust accumulation, increasing fire and explosion risks.

Clarification of Incorrect Answer Choices:

A: Cloth screen arrestor # Incorrect

Not effective for combustible metal dust, as magnesium dust can ignite easily and pass through fabric filters.

B: Low-pressure cyclone # Incorrect

Cyclones are used for larger particulate matter, but not suitable for fine magnesium dust due to fire and explosion hazards.

C: Dry-type dynamic precipitator # Incorrect

Dry-type systems can accumulate magnesium dust, creating an explosion hazard.

Conclusion:

The correct and verified answer is D (liquid precipitation type of separator) based on NFPA 484 Section 9.3.2 and IFC 2205, ensuring safe collection of magnesium dust during grinding, buffing, or wire brushing operations.

NEW QUESTION: 20

When adequate openings are provided on only one exterior wall of a story in an office building, an automatic sprinkler system shall be installed when the wall opposite the openings is more than ___ ft. away.

A. 50

B. 75

C. 100

D. 150

Answer: C (LEAVE A REPLY)

Reference to Automatic Sprinkler Requirements:

The International Fire Code (IFC 2021), Section 903.2.11.1 and NFPA 13 (Standard for Installation of Sprinkler Systems) regulate when sprinkler systems are required based on ventilation and fire spread potential.

A building with only one exterior wall providing openings creates a fire trap, increasing the need for automatic sprinklers.

Determining the Required Distance:

IFC 903.2.11.1 states that when the wall opposite the provided openings is more than 100 feet away, an automatic sprinkler system must be installed to ensure proper fire suppression.

Clarification of Incorrect Answer Choices:

A: 50 ft. # Incorrect

Sprinklers are not necessarily required at this distance because natural ventilation is still effective.

B: 75 ft. # Incorrect

This distance still allows some natural ventilation, making sprinklers optional rather than mandatory.

D: 150 ft. # Incorrect

Sprinklers are required once the distance exceeds 100 feet, so waiting until 150 feet would not meet code requirements.

Conclusion:

The correct and verified answer is C (100 feet) based on IFC 903.2.11.1 and NFPA 13, ensuring fire safety in office buildings with limited exterior openings.

NEW QUESTION: 21

Existing elevators in a four-story office building which are intended for use by emergency personnel for fire- fighting or rescue purposes must comply with which of the following standards?

- A. UL 803
- B. NFPA 70
- C. ASME A17.1
- D. ASME A17.3

Answer: (SHOW ANSWER)

Reference to Elevator Safety and Firefighter Use:

ASME A17.1 (Safety Code for Elevators and Escalators) establishes the safety requirements for elevators, including those designated for firefighter and emergency personnel use.

The International Fire Code (IFC) and NFPA 101 (Life Safety Code) both reference ASME A17.1 when addressing elevator safety and firefighter access.

Firefighter Access and Operation Requirements:

ASME A17.1, Section 2.27 covers Firefighter Emergency Operations (FEO), which includes:

Phase I Operation (Automatic recall of elevators to a designated floor upon activation of fire alarms).

Phase II Operation (Manual override by firefighters for rescue and suppression operations).

IFC 607.1 (2021 Edition) mandates that fire service access elevators comply with ASME A17.1 for firefighter use in high-rise and multi-story buildings.

Clarification of Incorrect Answer Choices:

A: UL 803 # Incorrect

UL 803 is not related to elevator fire safety; it pertains to electrical control panels for industrial applications.

B: NFPA 70 (National Electrical Code) # Incorrect

While NFPA 70 covers electrical wiring and circuits, it does not specifically regulate elevator emergency operations.

D: ASME A17.3 # Incorrect

ASME A17.3 is the Safety Code for Existing Elevators and Escalators, which applies to retrofits and upgrades, but ASME A17.1 is the primary code for operational and emergency use elevators.

Conclusion:

The correct and verified answer is C (ASME A17.1) because it specifically outlines the requirements for firefighter and emergency personnel elevator use, ensuring compliance with the IFC and NFPA codes.

NEW QUESTION: 22

Given: A nonsprinklered commercial Type II-B building has a fire flow requirement of 7,000 gpm. If a sprinkler system is installed throughout the building, the new required fire flow is at least ___ gpm. (Assume that the new required fire flow is sufficient to meet the requirements of the sprinkler system.)

- A. 1,500
- B. 1,750
- C. 2,000
- D. 2,250

Answer: A (LEAVE A REPLY)

IFC Section 903.3.5 and Appendix B (Fire-Flow Requirements) allow a reduction in fire flow when sprinklers are installed. For a Type II-B building (noncombustible, unprotected), the base fire flow (7,000 gpm) reflects a large, unsprinklered structure (e.g., per Table B105.1(2)). With full sprinkler protection, IFC B105.2 permits a reduction to as low as 25% of the original flow or the sprinkler demand (whichever is greater), typically 1,500 gpm for commercial buildings per NFPA 13 standards, assuming adequate water supply. Options B, C, and D exceed this minimum without justification. Thus, A is correct.

NEW QUESTION: 23

Battery-charging areas for industrial trucks shall be protected with portable fire extinguishers which have a minimum rating of:

- A. 4-A:20-B:C
- B. 3-A:40-B:C
- C. 2-A:10-B:C
- D. 40-B:C

Answer: D (LEAVE A REPLY)

Battery-charging areas for industrial trucks (such as forklifts) present a fire hazard due to the potential for flammable hydrogen gas buildup and electrical malfunctions. To mitigate this risk, portable fire extinguishers with a minimum rating of 40-B:C are required.

Reference to Fire Inspector Documentation:

1. 2021 International Fire Code (IFC) - Section 309.5 (Fire Extinguishers for Battery-Charging Areas) IFC 309.5 states that battery-charging areas must have a portable fire extinguisher with a minimum rating of 40-B:C to handle potential electrical and flammable liquid fires.

The B rating covers flammable liquid fires (such as battery electrolyte leaks), while the C rating ensures it is safe for electrical fires.

2. NFPA 10 - Standard for Portable Fire Extinguishers (2022 Edition)

NFPA 10, Table 6.3.1.1 outlines that industrial battery-charging areas must have at least one extinguisher rated 40-B:C.

This ensures adequate fire suppression capability for both electrical and flammable liquid hazards.

Detailed Explanation of Answer Choices:

Option A (Incorrect): 4-A:20-B:C includes a higher A-rating (for ordinary combustibles), but 20-B:C is below the required 40-B:C.

Option B (Incorrect): 3-A:40-B:C exceeds the B:C requirements but adds an unnecessary A-rating, which is not specified in the code.

Option C (Incorrect): 2-A:10-B:C is insufficient, as it does not meet the 40-B:C minimum requirement.

Option D (Correct): 40-B:C is the correct and minimum required rating per IFC 309.5 and NFPA 10.

Thus, the correct and verified answer is: D. 40-B:C.

NEW QUESTION: 24

The clearance requirement from structures for open burning may be reduced to a minimum of ___ ft. from a structure when the burning is conducted in an approved container.

- A. 10
- B. 15
- C. 25
- D. 50

Answer: (SHOW ANSWER)

For open burning, fire codes typically require a minimum clearance from structures to prevent fire spread.

However, when burning is conducted in an approved container, the required clearance distance may be reduced to 15 feet.

Reference to Fire Inspector Documentation:

1. 2021 International Fire Code (IFC) - Section 307.4 (Open Burning, Recreational Fires, and Portable Outdoor Fireplaces) IFC 307.4 states that the minimum clearance for open burning is 50 feet but may be reduced to 15 feet when conducted in an approved container that prevents fire spread.

2. NFPA 1 - Fire Code (2021 Edition) - Section 10.11 (Open Burning and Recreational Fires) NFPA 1, Section 10.11.5 aligns with the IFC and allows a minimum of 15 feet clearance for contained burning in approved receptacles.

Detailed Explanation of Answer Choices:

Option A (Incorrect): 10 ft. is too close and does not meet the IFC minimum requirement.

Option B (Correct): 15 ft. is the minimum required distance for burning in an approved container according to IFC 307.4.

Option C (Incorrect): 25 ft. is the standard for recreational fires but not for approved containers.

Option D (Incorrect): 50 ft. applies to open burning without a container, not when using an approved container.

Thus, the correct and verified answer is: B. 15 ft.

NEW QUESTION: 25

Smoking is not permitted within ____ ft. of a transfer point for LP-gas while filling operations are in progress.

A. 10

B. 15

C. 25

D. 50

Answer: C (LEAVE A REPLY)

Smoking Restrictions Near LP-Gas Transfer Points

According to the International Fire Code (IFC) 2021, Section 3807.2, smoking is not permitted within 25 feet of an LP-gas transfer point while filling operations are in progress.

This prevents ignition hazards, as LP-gas is highly flammable and can ignite from cigarettes, matches, or lighters.

2. Why 25 Feet is the Correct Answer

LP-gas vapors are heavier than air and can travel significant distances before igniting.

The 25-foot clearance requirement is set to prevent accidental ignition due to an undetected vapor leak.

3. Verification of Other Options

Option A (10 feet) - Incorrect, as this is the requirement for smaller propane cylinder storage areas, not transfer points.

Option B (15 feet) - Incorrect, as IFC mandates a 25-foot minimum clearance.

Option D (50 feet) - Incorrect, as the IFC requirement is specifically 25 feet, not 50.

Reference Sources:

International Fire Code (IFC) 2021 - Section 3807.2 (Smoking Prohibitions Near LP-Gas Transfer Points) NFPA 58: Liquefied Petroleum Gas Code (Safe Handling and Transfer Requirements) ICC Fire Inspector II Study Guide (2021) Thus, the correct and verified answer is: C. 25 feet. #

NEW QUESTION: 26

Clearance between tops of piles of combustibles and sprinkler heads shall not be less than ____ ft.

A. 2

B. 3

C. 4

D. 5

Answer: B (LEAVE A REPLY)

Reference to Fire Code Requirements for Clearance Between Combustible Fibers and Sprinklers:

The International Fire Code (IFC 2021), Section 3206.6, states that the minimum clearance between the tops of piles of combustibles and sprinkler deflectors shall be no less than 3 feet.

This requirement ensures that the sprinkler system operates efficiently and that water distribution is not obstructed in case of a fire.

Fire Safety Concerns:

Combustible fibers pose a high fire risk due to their flammability and tendency to generate large amounts of heat and smoke.

Adequate clearance prevents heat accumulation near the sprinkler heads, ensuring they activate at the correct temperature.

Clarification of Incorrect Answer Choices:

A: 2 ft. # Incorrect

Too low and could obstruct sprinkler operation, reducing water distribution effectiveness.

C: 4 ft. # Incorrect

Exceeds the required minimum per the IFC 3206.6 standard, though more clearance is beneficial.

D: 5 ft. # Incorrect

More than the code requirement, but the mandatory clearance is 3 feet.

Conclusion:

The correct and verified answer is B (3 feet) based on IFC 3206.6, ensuring proper sprinkler performance and fire safety for combustible fiber storage.

NEW QUESTION: 27

What fire-resistance rating is required for interior nonbearing wall and partitions in Type IV construction?

A. 0 hours

B. 1 hour

C. 1-1/2 hours

D. 2 hours

Answer: A (LEAVE A REPLY)

The fire-resistance rating requirements for different building elements in Type IV (Heavy Timber) construction are specified in the 2021 International Building Code (IBC), Table 601 - Fire-Resistance Rating Requirements for Building Elements (Hours).

IBC Table 601 - Fire Resistance for Type IV Construction:

Interior nonbearing walls and partitions in Type IV construction require 0 hours of fire resistance.

This is because Type IV construction primarily relies on large, heavy timber elements that provide inherent fire resistance.

Why Other Options Are Incorrect?

B: 1 hour - Incorrect, as nonbearing interior walls in Type IV construction are not required to have a fire-resistance rating.

C: 1-1/2 hours - Not required by code.

D: 2 hours - Only structural elements like exterior walls in some cases may require fire resistance, but nonbearing interior partitions do not.

NEW QUESTION: 28

Fire inspectors receiving citizen complaints about a building should first:

- A. record all pertinent information.
- B. investigate the history of the building.
- C. forward the complaint to the senior inspector.
- D. inform the owner of the building that a complaint has been filed against him.

Answer: A (LEAVE A REPLY)

Reference to Fire Inspection Procedures for Handling Complaints:

According to the International Fire Code (IFC 2021), Section 104.11, fire inspectors are responsible for investigating complaints regarding fire hazards or code violations.

The first step in responding to a citizen complaint is to record all pertinent information about the issue.

2. Steps in Handling a Fire Safety Complaint:

Step 1: Record detailed information about the complaint, including:

Complainant's name and contact information (if available).

Address and description of the building.

Nature of the alleged fire hazard or code violation.

Step 2: Verify the history of past violations (if necessary).

Step 3: Conduct an inspection to determine if a violation exists.

Step 4: Take appropriate enforcement action, if needed.

3. Clarification of Incorrect Answer Choices:

B: Investigate the history of the building # Incorrect

While past violations can provide context, the first step is to record the details of the current complaint before investigating further.

C: Forward the complaint to the senior inspector # Incorrect

Inspectors do not need to escalate every complaint immediately; instead, they should gather relevant information first.

D: Inform the owner of the building that a complaint has been filed against him # Incorrect

Not all complaints result in violations, and notifying the owner prematurely may lead to unnecessary disputes or conflicts.

The inspector should first verify the validity of the complaint before notifying the owner.

4. Conclusion:

The correct and verified answer is A (record all pertinent information) as per IFC 104.11 and fire inspection best practices.

NEW QUESTION: 29

A container in a clean-agent extinguishing system must be refilled or replaced when it shows a loss in original weight of more than five percent, or a loss in original pressure of more than ___ percent.

A. 3

- B. 5
- C. 10
- D. 12

Answer: A (LEAVE A REPLY)

A container in a clean-agent extinguishing system must be refilled or replaced if it experiences a loss of more than 5% of its original weight or a loss in original pressure of more than 3%. This requirement ensures the system maintains sufficient agent concentration for fire suppression.

Reference to Fire Inspector Documentation:

1. NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (2022 Edition) NFPA 2001, Section 7.3.2.1 states that a container must be refilled or replaced if the weight loss exceeds 5% or the pressure loss exceeds 3% from the original fill pressure.

These limits are set to maintain system effectiveness and ensure that a clean-agent system can properly discharge in case of a fire.

2. 2021 International Fire Code (IFC) - Chapter 9 (Fire Protection Systems) IFC 904.10 requires that clean-agent systems be maintained per NFPA 2001 to ensure reliability.

Detailed Explanation of Answer Choices:

Option A (Correct): 3% pressure loss is the correct threshold beyond which a container must be replaced or refilled.

Option B (Incorrect): While 5% is correct for weight loss, it is not the correct value for pressure loss.

Option C (Incorrect): A 10% pressure loss is too high and would compromise system performance before reaching the replacement threshold.

Option D (Incorrect): 12% is well beyond the acceptable loss limit and would pose a significant safety risk.

Thus, the correct and verified answer is: A. 3

NEW QUESTION: 30

What is the maximum travel distance to an exit from within a tent?

- A. 75 ft.
- B. 100 ft.
- C. 150 ft.
- D. Any distance approved by the chief

Answer: C (LEAVE A REPLY)

The maximum travel distance to an exit from within a tent is regulated under the 2021 International Fire Code (IFC), Section 3103.12.2 - Means of Egress (Tents and Membrane Structures).

IFC Section 3103.12.2 - Travel Distance:

"The maximum travel distance to an exit shall not exceed 150 feet (45,720 mm)." Why

Other Options Are Incorrect?

A: 75 ft. - This limit does not apply to tents; the correct limit is 150 ft.

B: 100 ft. - Too restrictive; the IFC allows up to 150 ft.

D: Any distance approved by the chief. - The fire code does not allow unlimited travel distances; 150 feet is the maximum permitted by code.

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