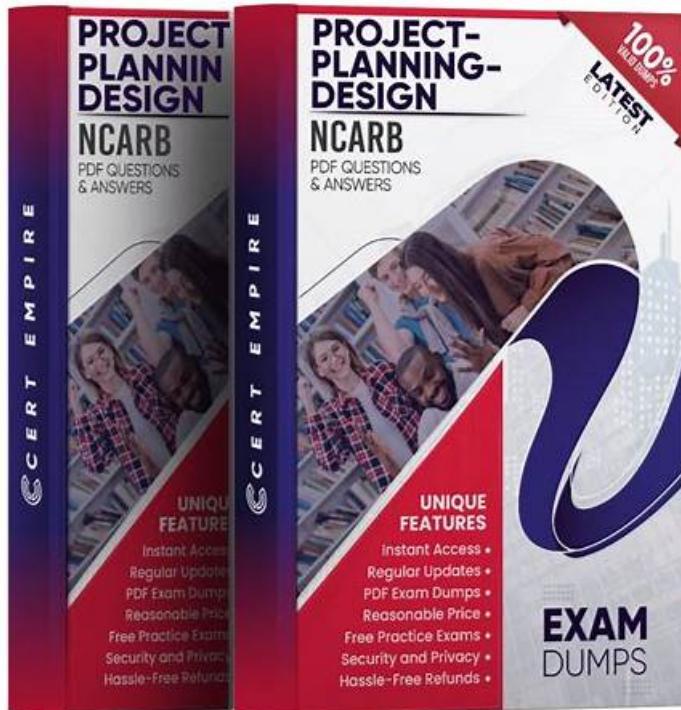


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## NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q72-Q77):

## NEW QUESTION # 72

An existing building containing the maximum allowable area may be extended horizontally provided the extension is separated from the existing building by which one of the following?

- A. A fire wall
- B. A water curtain
- C. An outside space separation of at least 10 ft
- D. A fire-rated shutter

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

According to the International Building Code (IBC) and reflected in the NCARB Project Planning & Design guidelines, when an existing building has reached the maximum allowable floor area, horizontal extensions (additions) can be made only if there is a proper separation between the existing structure and the new addition. This separation must prevent fire spread and protect structural integrity.

A fire wall is a continuous, fire-resistive barrier designed to prevent the spread of fire between adjacent buildings or different parts of a building. It must have structural stability under fire conditions and can allow the two portions of the building to be treated as separate structures for area calculations, effectively permitting expansion beyond the allowable area of a single building.

Fire-rated shutters (Option A) are movable devices used for compartmentation but are not intended for permanent separation of building areas.

Outside space separation of at least 10 ft (Option B) is generally insufficient for full area separation unless it meets specific fire-resistance rating and distance requirements that typically exceed 10 feet.

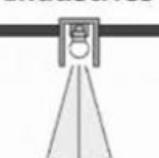
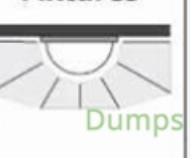
Water curtains (Option D) are active fire protection devices but are not substitutes for passive separations required by code to extend allowable building area.

Thus, the correct method to extend a building beyond its maximum allowable area is to separate it with a fire wall, as per NCARB and IBC provisions.

References:

ARE 5.0 PPD - Codes and Regulations, Building Area and Occupancy Separation IBC 2018, Chapter 7: Fire and Smoke Protection Features The Architect's Handbook of Professional Practice, 15th Edition - Fire Protection

## NEW QUESTION # 73

Mornath Industries	Luxenardo	Bea-Lele Lighting	VeriSPEK Fixtures
			
<b>Fluorescent</b>	<b>Metal Halide</b>	<b>LED</b>	<b>Halogen</b>
2,800K	5,000K	2,800K	3,000K
79 CRI	90 CRI	91 CRI	95 CRI

Refer to the exhibit (lighting fixtures with Kelvin temperatures and CRI values).

An architect is evaluating downlighting for a new restaurant. The owner requests the lighting cast a warm light, be energy efficient, and allow for the colors of the chef's food to accurately appear while guests are seated.

What fixture manufacturer satisfies the owner's request?

- A. Luxenardo (Metal Halide, 5000K, 90 CRI)
- B. Bea-Lele Lighting (LED, 2800K, 91 CRI)
- C. Mornath Industries (Fluorescent, 2800K, 79 CRI)
- D. VeriSPEK Fixtures (Halogen, 3000K, 95 CRI)

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The owner's requirements include:

Warm light: Lower color temperatures (~2700K to 3000K) produce warm light, flattering food and ambiance.

Both Mornath (2800K) and Bea-Lele (2800K) meet this.

Energy efficiency: LEDs are generally more energy efficient than halogen, fluorescent, and metal halide fixtures.

Accurate color rendering: A high Color Rendering Index (CRI) above 90 is desirable to accurately render food colors. Bea-Lele Lighting (91 CRI) and VeriSPEK Fixtures (95 CRI) meet this.

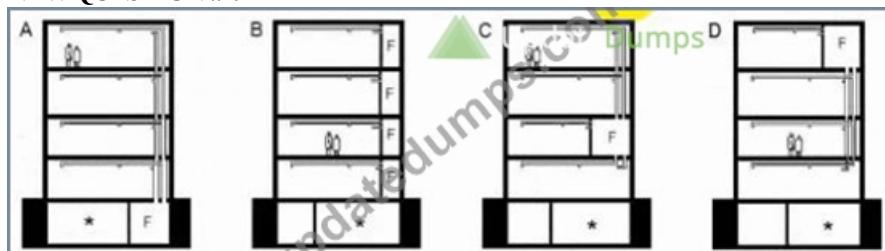
Between Bea-Lele and VeriSPEK, LED fixtures are more energy efficient than halogen, making Bea-Lele Lighting (LED, 2800K, 91 CRI) the best choice.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Lighting Design

The Architect's Handbook of Professional Practice, 15th Edition - Lighting and Color Rendering

#### NEW QUESTION # 74



Refer to the exhibit (four building sections with fan locations (F) and boiler/chiller equipment (\*)).

Which of the fan locations (F) indicated for a four-story office building would allow the most efficient provision for weekend cooling?

- A. A
- B. B
- C. C
- D. D

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For efficient weekend cooling in a multi-story office building, placing fan equipment centrally between the conditioned spaces reduces duct lengths, allows better zoning, and minimizes energy use.

In option C, fans are located mid-building between office floors and other uses, allowing for more efficient distribution and individual zone control.

Other options (A, B, D) place fans either all at one end or stacked at one side, increasing duct runs and reducing flexibility in zoning, which can lead to inefficiency during reduced loads like weekends.

NCARB PPD guidelines emphasize mechanical system design that optimizes equipment placement to balance energy efficiency, occupant comfort, and system flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, HVAC System Design

The Architect's Handbook of Professional Practice, 15th Edition - Mechanical Equipment Layout

#### NEW QUESTION # 75

Examples of regulatory controls include which of the following elements? Check the four that apply.

- A. Economic models
- B. Historic designation
- C. Socio-political demographics
- D. Fire protection
- E. Master plans
- F. Environmental management

**Answer: B,D,E,F**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Regulatory controls are governmental or authoritative rules that regulate land use, building design, and environmental protection.

Master plans (A): Provide regulatory frameworks guiding development.

Environmental management (B): Includes regulations on land, water, and air quality.

Fire protection (C): Enforced through codes and regulations.

Historic designation (E): Regulates preservation and alterations of historic sites.

Socio-political demographics (D) and economic models (F) are influential factors but are not regulatory controls.

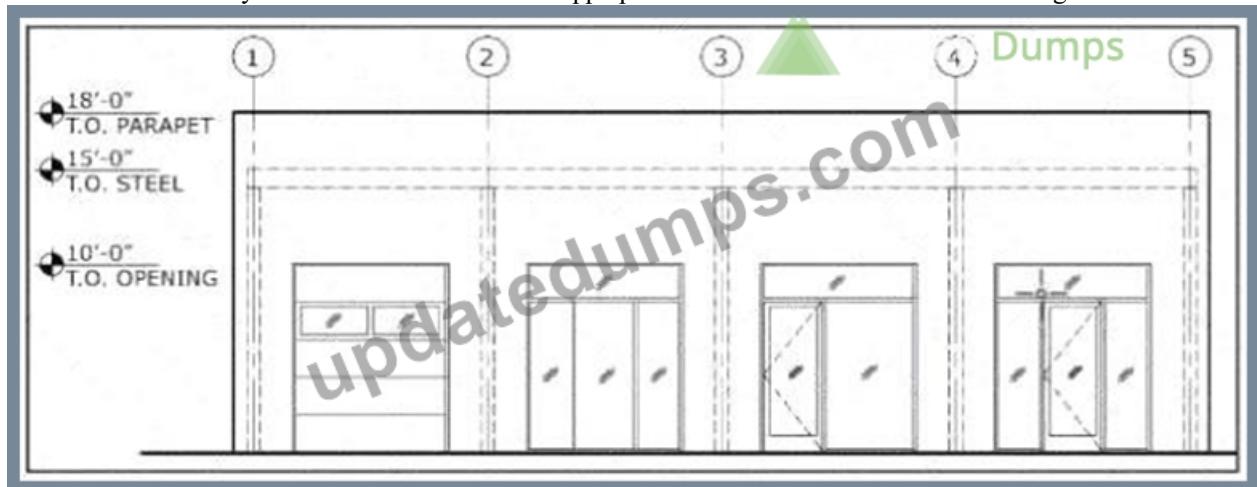
References:

ARE 5.0 PPD - Codes and Regulations

The Architect's Handbook of Professional Practice, 15th Edition - Land Use Controls

#### NEW QUESTION # 76

Click in the structural bay of the elevation that is the most appropriate location to install steel rod cross bracing.



**Answer:**

Explanation:



Explanation:

the most appropriate location to install steel rod cross bracing is in the fourth structural bay, which corresponds to the bay on the far right side of the elevation.

\* Steel rod cross bracing is typically installed in bays that are fully open or contain large door openings and require lateral support to resist racking forces (lateral loads such as wind or seismic forces).

\* The fourth bay shows a large door opening without any visible solid wall or shear wall elements, making it structurally weaker against lateral loads and thus the most suitable for cross bracing.

\* The first bay, with a smaller door or solid wall, and the other bays with more enclosed or glazed openings may have other structural elements providing lateral resistance.

\* Installing the bracing in the fourth bay enhances structural stability and prevents lateral displacement or deformation.

#### NEW QUESTION # 77

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