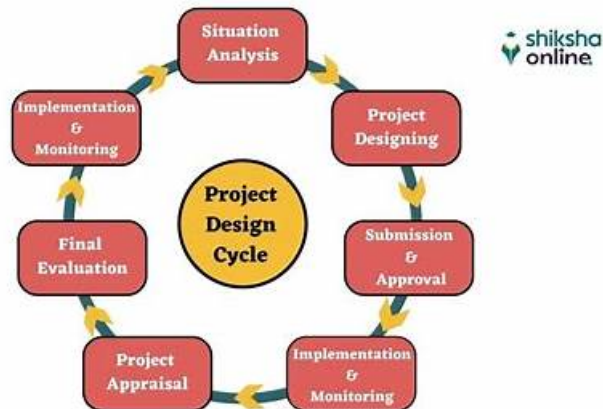


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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q58-Q63):

NEW QUESTION # 58

The rehabilitation of a warehouse for a commercial occupancy has a heavy anticipated electrical distribution load and it is expected that the current of the electrical system will be expanded in the near future.

The least expensive and most flexible electrical distribution system would be comprised of which one of the following?

- A. Aluminum or copper bus duct with tap boxes
- B. Paralleled sets of aluminum wire in conduits
- C. Single large aluminum or copper conductor
- D. Paralleled sets of copper wire in conduits

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Bus duct systems with tap boxes offer modular, flexible electrical distribution capable of handling high loads and allowing easy future expansions with minimal disruption and cost.

Paralleled wires (A, B) increase complexity and are less flexible.

Single large conductors (C) are limited in expansion.

Bus ducts optimize installation speed, scalability, and cost in commercial building retrofits.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Electrical Systems

The Architect's Handbook of Professional Practice, 15th Edition - Electrical Distribution

NEW QUESTION # 59

For a three-story building, which of the following is considered a vertical irregularity with respect to seismic design?

- A. The effective mass of the roof is one-half the mass of the floor immediately below.
- **B. The effective mass of story 2 is two times the mass of story 1.**
- C. The building has a significant reentrant corner on the front side.
- D. Interior symmetrically placed shear walls are four times as stiff as perimeter columns.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In seismic design, vertical irregularities are discontinuities or abrupt changes in the building's mass, stiffness, or geometry that can affect seismic response and increase vulnerability during an earthquake. The NCARB ARE 5.0 Project Planning & Design guidelines describe vertical irregularities as changes occurring along the height of the building.

* Option C describes a mass irregularity where story 2 has twice the effective mass of story 1. According to seismic code provisions (such as those referenced in ASCE 7 and adopted by IBC), a vertical mass irregularity is present if the effective seismic mass in any story is more than 150% (1.5 times) or less than 70% (0.7 times) of the mass of an adjacent story. Here, doubling the mass is a significant vertical irregularity that affects the dynamic behavior and design.

* Option A, the roof mass being half that of the floor below, is a decrease in mass but less than the typical threshold of 30% difference (the ratio is 0.5, which is a 50% difference). This might also be considered, but the mass irregularity is more typically flagged at the 1.5x or 0.7x threshold and tends to be more critical in lower floors, making C the clearer choice.

* Option B describes a reentrant corner, which is a horizontal plan irregularity, not vertical. Reentrant corners affect torsional behavior but are not classified as vertical irregularities.

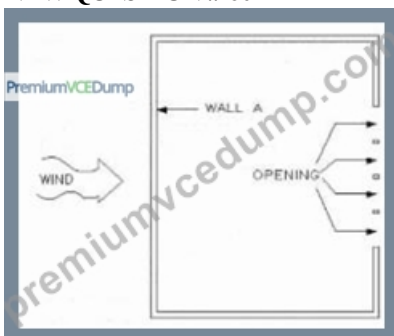
* Option D refers to stiffness differences between interior shear walls and perimeter columns but, when symmetrically placed, this is not necessarily considered an irregularity. Vertical stiffness irregularities are defined by abrupt stiffness changes in vertical elements, but symmetry mitigates torsional effects.

The presence of vertical mass irregularities significantly influences seismic forces distribution, dynamic response, and the potential for torsional motions. Designers must recognize these irregularities per NCARB guidelines and apply appropriate structural detailing and design modifications to meet life-safety requirements.

References:

ARE 5.0 Project Planning & Design Outline: Environmental Conditions and Context - Seismic Design Considerations NCARB ARE 5.0 Guidelines, Seismic Design and Irregularities ASCE 7-16, Chapter 12 - Seismic Design Criteria The Architect's Handbook of Professional Practice, 15th Edition, Chapter 13: Building Codes, Standards, and Regulations

NEW QUESTION # 60



Refer to the exhibit (building with wind impacting wall A, and openings shown).

For the building subjected to wind as shown, the design pressure acting on the interior face of wall A would be what?

- A. Acting both toward and away from wall A
- B. Zero
- C. Acting toward wall A only
- D. Acting away from wall A only

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

With openings allowing wind passage, pressure on the interior of wall A varies:

Wind pressure on the windward side induces positive pressure toward wall A.

Wind entering openings can create localized negative pressure (suction) on the interior surface, acting away from wall A.

Thus, the interior face experiences both positive and negative pressures depending on location and airflow, meaning D. Acting both toward and away from wall A is correct.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Wind Loads on Building Enclosures The Architect's Handbook of Professional Practice, 15th Edition - Building Envelope Design

NEW QUESTION # 61



Refer to the exhibit (concrete rigid frame building with aluminum curtain wall system).

The drawing shows a proposed concrete rigid frame building enclosed in an aluminum curtain wall system.

To save money, the contractor proposed to eliminate the curtain wall system and substitute steel stud framing, which is anchored between the columns and beams and covered with a stucco finish.

What is the most likely result of this substitution?

- A. The substitution will work and will save construction cost.
- B. The stucco will crack due to movement of the frames under lateral loading.
- C. Wind load on the stud framing will transfer directly to the concrete frame and overload it.
- D. Increased dead load of the stucco system will overload the frames.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Curtain wall systems are designed to accommodate building movement, including deflections from wind and seismic loads, and provide an air and moisture barrier without carrying structural loads.

Replacing the curtain wall with a steel stud framing covered with stucco, which is rigid and brittle, will not accommodate differential movement between the frame and cladding. This is likely to cause stucco cracking as the steel framing and concrete frame move differently under lateral loads.

The wind load will not necessarily overload the concrete frame (A), as loads are transferred properly in both systems.

The substitution may save initial cost but will cause durability and maintenance problems (B).

Dead load increase (D) is minimal compared to structural effects of cracking.

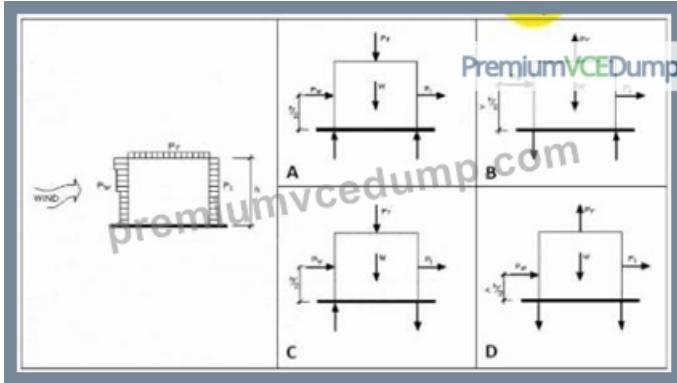
NCARB guidelines stress proper cladding systems that can accommodate structural deflections to prevent damage.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Curtain Wall Systems

The Architect's Handbook of Professional Practice, 15th Edition - Building Envelope

NEW QUESTION # 62



Refer to the exhibit (building subjected to wind with force diagrams A, B, C, D).

Which of the force diagrams shown correctly represents the resultant wind forces causing an overturning effect on the building and the forces that resist this overturning effect? (Direction and point of application of forces are to be considered; magnitude of forces is not.)

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

Answer: A

Explanation:

The diagram shows a building exposed to wind loading, which causes lateral pressure (P_w) on the windward wall and suction (negative pressure) on the leeward wall, generating an overturning moment about the base of the building.

* Diagram A correctly shows:

* The wind pressure (P_w) pushing on the windward wall, producing a lateral force applied at approximately two-thirds the building height (h), which tends to overturn the building.

* The wind suction (P_l) pulling on the leeward wall, acting in the opposite direction but also contributing to the overturning moment.

* The reaction forces at the base resist this overturning: an uplift force (negative vertical reaction) on the windward side and a downward force on the leeward side, counterbalancing the moment.

* Diagrams B, C, and D incorrectly orient or place the forces or reactions, failing to accurately depict the overturning moment and the corresponding resisting forces.

NCARB ARE 5.0 PPD guidelines on environmental conditions emphasize understanding wind load effects, including lateral pressures, suction, overturning moments, and foundation reactions essential for structural design and safety.

References:

ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Wind Loads and Structural Response

ASCE 7-16: Minimum Design Loads for Buildings and Other Structures (Wind Load Provisions) The Architect's Handbook of Professional Practice, 15th Edition, Chapter 13: Building Codes, Standards, and Regulations

NEW QUESTION # 63

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