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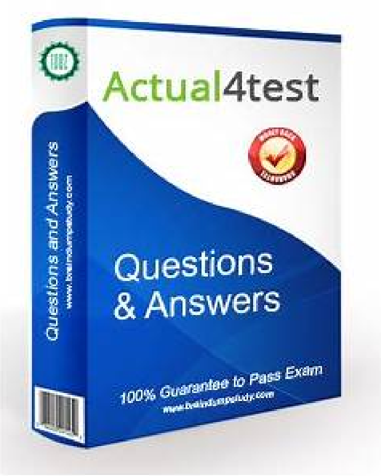

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NCARB PDD Exam Syllabus Topics:

Topic	Details
Topic 1	• Codes & Regulations: This section of the exam measures skills of Building Code Specialists and examines how codes and regulations apply at a detailed level during documentation. Candidates are expected to demonstrate knowledge of compliance with the International Building Code (IBC) as well as other specialty regulations, as well as how to interpret and apply these standards to ensure design and documentation meet legal and safety requirements.

Topic 2	• Construction Documentation: This section of the exam measures skills of Project Architects and addresses the creation and management of project documentation. Candidates are expected to demonstrate knowledge of documenting building design and site features, preparing detailed architectural drawings, and applying industry standards to produce a coordinated set of construction documents. The section also includes understanding how project changes impact documentation and how to communicate these updates effectively to both the design team and the client.:
Topic 3	• Integration of Building Materials & Systems: This section of the exam measures the skills of Architectural Designers and focuses on the ability to resolve and integrate various building systems into cohesive project goals. It covers analyzing architectural systems and technologies, determining the size of structural, mechanical, electrical, and plumbing systems, and incorporating specialty systems such as acoustics, lighting, security, and communications. It also evaluates the ability to detail how multiple building systems work together and to coordinate across disciplines to achieve a unified design.
Topic 4	• Construction Cost: This section of the exam measures the skills of Construction Managers and focuses on the financial side of project execution. It evaluates the ability to analyze construction cost estimates to confirm that they align with project design intent and budgetary constraints. Although this is the smallest section, it is critical for ensuring projects remain feasible and economically viable.
Topic 5	• Project Manual & Specifications: This section of the exam measures the skills of Specifications Writers and emphasizes the importance of developing documentation that goes beyond drawings. Candidates must understand how to identify and prioritize elements needed to prepare, maintain, and refine both the project manual and project specifications. It also assesses the ability to align and coordinate these specifications with the construction documents to ensure consistency and accuracy.

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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q30-Q35):

NEW QUESTION # 30
Which of the following must be considered in the proper selection of thermal insulation and moisture control assemblies for a building? (Check all that apply)

- A. Type of HVAC system to be used
- B. Orientation of the building
- C. Thermal resistance properties of the materials
- D. Exterior climate of the building location
- E. Interior climate of the space
- F. Compatibility of the materials with adjacent materials

Answer: B,C,D,E,F

Explanation:
(Interior climate of the space, Exterior climate of the building location, Thermal resistance properties of the materials, Orientation of the building, Compatibility of the materials with adjacent materials) Comprehensive Detailed Explanation with all NCARB ARE 5.0 Project Development and Documentation (PDD) Study Guide References:
Selecting thermal insulation and moisture control assemblies requires a holistic approach considering multiple factors:
A). Interior climate of the space: Critical to determine required insulation levels and vapor barrier placement.

B). Exterior climate: Determines heating or cooling loads, moisture conditions, freeze-thaw cycles.
D). Thermal resistance properties: R-value of materials is fundamental in controlling heat flow.
E). Orientation of the building: Affects solar heat gain, exposure to wind-driven rain, and thus moisture control strategy.
F). Compatibility of materials: Important to avoid chemical or physical degradation, ensure proper adhesion, and maintain performance over time.
C). Type of HVAC system is important for overall building performance but not a primary factor in selecting insulation and moisture control assemblies themselves, which are more dependent on physical and climatic factors.
Supporting References:
NCARB ARE 5.0 Review Manual, Environmental Systems and Materials chapters ASHRAE Fundamentals Handbook (thermal insulation design) Building Science Corporation's guides on moisture control and thermal envelopes

NEW QUESTION # 31

Owners of a busy two-story theater complex want to renovate. The new renovations include increasing the second floor lobby and doubling the number of second floor movie screens. The owner favors the use of escalators. Movies are scheduled to start simultaneously every three hours. The theater currently has a pair of
24-inch-wide parallel escalators, one of which goes up and the other down.
Which of the following should be proposed to accommodate the increased traffic to the second floor?

- A. Increase the existing escalator speeds to 130 fpm
- B. Install a new escalator that reverses direction
- C. Extend balustrades at escalator landings
- D. Install a new elevator in the lobby

Answer: B

Explanation:
Given:
The theater doubles its second-floor movie screens, increasing patron traffic.
Existing escalators are two 24-inch wide units, one up and one down, with simultaneous movie start times every 3 hours.
To handle increased traffic:
Increasing existing escalator speed to 130 fpm (option A) is limited by safety and code limits (typically max around 100 fpm); also increases wear.
Installing a new elevator (option B) is helpful for accessibility but does not efficiently handle high flow of large crowds during peak.
Installing a new escalator that reverses direction (option C) (also called a "dance" or "two-way" escalator) allows flexibility to accommodate peak traffic flow-e.g., two escalators up during rush times and one down, or vice versa.
Extending balustrades (option D) improves safety but does not increase capacity.
Therefore, option C is the best solution to manage increased passenger flow.
References:
NCARB ARE 5.0 Review Manual, Environmental Systems and Building Services chapter Vertical transportation design principles in public assembly spaces ASME A17.1 Safety Code for Elevators and Escalators

NEW QUESTION # 32

In a brick veneer wall, what is the primary purpose of the 2-inch air space between the back of the brick and the sheathing?

- A. Allow for differential movement
- B. Provide space for roof drain piping
- C. Minimize mortar bridging
- D. To meet the minimum R-value

Answer: C

Explanation:
Purpose of the Air Space in Brick Veneer Walls
In a typical brick veneer cavity wall assembly, there is an air space between the back side of the brick and the sheathing (or water-resistive barrier) of the structural wall. This space is typically 1 to 2 inches wide and serves several critical functions:
* Moisture Drainage and Ventilation
* Rainwater can penetrate brick veneer through joints and cracks.
* The air cavity allows water to drain down the back of the veneer to flashing and out through weep holes.
* It also provides ventilation to help dry out the wall assembly.

* Minimizing Mortar Bridging
* During construction, mortar can drop down into the cavity from bricklaying.
* If mortar bridges across to the sheathing, it can create a path for moisture to move into the structure.
* The 2-inch cavity helps reduce the chance that mortar droppings will fully bridge the gap, ensuring the drainage plane stays functional.
Why Other Options Are Incorrect:
* A. To meet the minimum R-value - The air space in brick veneer is not designed as insulation; its thermal benefit is minimal compared to continuous insulation layers.
* B. Allow for differential movement - Brick veneer differential movement is accommodated by wall ties and control joints, not by the air cavity.
* C. Provide space for roof drain piping - Roof drainage piping is routed separately and is not part of the brick veneer cavity design.
NCARB ARE 5.0 PDD Study Guide References:
* Content Area: Building Envelope Systems - Masonry Wall Assemblies
* Source References:
* Building Construction Illustrated (Ching) - Brick Veneer Wall Sections and Cavity Function
* Architectural Graphic Standards - Masonry Veneer Construction Details
* BIA (Brick Industry Association) Technical Notes 21 & 21A - Cavity Wall Design and Construction Key Principle:
A 2-inch air cavity behind brick veneer is primarily to ensure proper drainage and to minimize mortar bridging, which would otherwise allow moisture intrusion into the building.

NEW QUESTION # 33

Refer to the exhibit.
What is the primary function of the 2 x 4 blocking shown at X in the drawing?

- A. Transfer the lateral loads from the ceiling joists
- B. Support the top of the partition
- C. Brace the ceiling joists
- D. Transfer the lateral load to the 1 x 8

Answer: C

Explanation:
Comprehensive Detailed Explanation with all NCARB ARE 5.0 Project Development and Documentation (PDD) Study Guide References:
In wood frame construction, blocking installed between joists at regular intervals (commonly 48 inches on center) serves primarily to brace and stabilize the joists laterally, preventing twisting and lateral displacement under load.
The 2x4 blocking at point X, placed perpendicular between the ceiling joists, acts as cross bracing.
It resists lateral torsional buckling of the joists and distributes loads evenly.
It also helps maintain alignment during construction and after the finish materials are installed.
The blocking does not support the partition top plate directly (that is the function of the studs beneath), nor does it transfer lateral load to the 1x8. Its main role is structural bracing for the joists.
Supporting References:
NCARB ARE 5.0 Review Manual, Project Development and Documentation, Structural Systems chapter Wood Frame Construction details from International Residential Code (IRC) Building construction texts such as "Fundamentals of Building Construction" by Allen and Iano, which describe blocking used to brace joists.

NEW QUESTION # 34

Which of the following is an advantage of using a glycol-cooled air conditioning unit for a computer room?

- A. It allows for a greater distance from the computer room to the outside unit.
- B. Glycol units are a sustainable cooling solution.
- C. Glycol is cheaper than water for cooling.
- D. It reduces the amount of heat exhausted from the computer room.

Answer: A

Explanation:
Glycol-cooled air conditioning systems use a glycol-water mixture as a secondary coolant instead of plain water. Glycol has lower freezing point and better heat transfer properties in certain conditions.

Advantages include:
Longer piping runs without freezing risk, allowing the chiller or cooling unit to be located further away from the computer room, useful for flexible building layouts.
Glycol prevents freezing in cold climates or exposed pipes.
It does not inherently reduce heat exhausted or is necessarily more sustainable than water cooling.
Glycol is generally more expensive than water.
Therefore, the primary advantage is the ability to locate the cooling unit farther from the space being cooled.
References:
NCARB ARE 5.0 Review Manual, Mechanical Systems chapter
HVAC system design manuals
ASHRAE guidelines on computer room cooling and chilled water systems

NEW QUESTION # 35

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