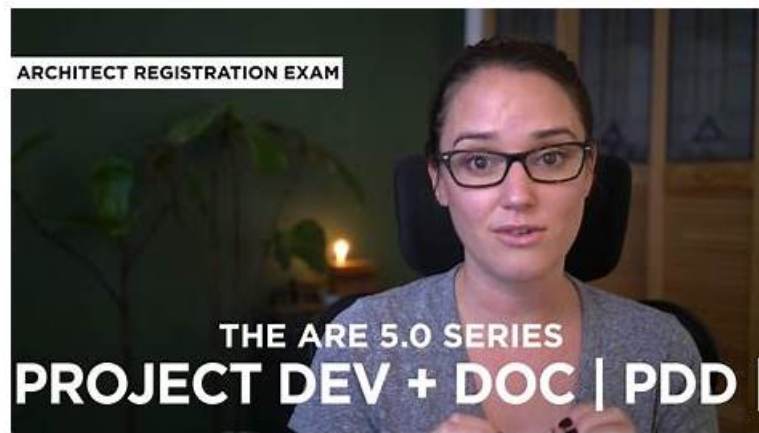


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NCARB PDD Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • 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 2	<ul style="list-style-type: none"> • 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 3	<ul style="list-style-type: none"> • 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.
Topic 4	<ul style="list-style-type: none"> • 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 5	<ul style="list-style-type: none"> • 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.:
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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q44-Q49):

NEW QUESTION # 44

Which of the following admixtures is used to greatly increase the slump of concrete?

- A. Calcium chloride
- B. Water-reducing agent
- C. Superplasticizer
- D. Air-entraining agent

Answer: C

Explanation:

Comprehensive Detailed Explanation with all NCARB ARE 5.0 Project Development and Documentation (PDD) Study Guide References:

In concrete technology, admixtures are used to modify properties of fresh or hardened concrete:

Air-entraining agents: Introduce microscopic air bubbles to improve freeze-thaw resistance; they do not increase slump.

Water-reducing agents: Reduce water content while maintaining slump; increase workability but only moderately.

Calcium chloride: An accelerator, speeds up setting time; does not increase slump.

Superplasticizers (also called high-range water reducers): Significantly increase the slump (workability) of concrete without adding extra water, making the mix more flowable and easier to place.

Thus, to greatly increase slump while maintaining water-cement ratio, the superplasticizer is the correct choice.

Supporting References:

NCARB ARE 5.0 Review Manual, Materials and Assemblies section

Portland Cement Association publications on admixtures

ACI (American Concrete Institute) guidelines on admixtures

NEW QUESTION # 45

Refer to the exhibit.

An architect reviews the construction manager's construction estimate for a typical precast wall system with aluminum storefront windows.

Click on the component in the axonometric detail that is missing from the system estimate.

Answer:

Explanation:

Explanation:

1. Reviewing the Construction Estimate

The listed components are:

- * Architectural Precast Panels - exterior cladding
- * Aluminum Storefront Windows - glazing system
- * Prefinished Metal Sill Flashing - weatherproofing at sill
- * Sealant - for joints between components

No line item appears for thermal insulation.

2. Identifying the Missing Element in the Axonometric Detail

Looking at the drawing:

- * The detail shows precast concrete panel cladding outside.
- * A storefront frame and glazing in the opening.
- * There is a hatched layer behind the precast in the stud cavity area - this represents continuous insulation.
- * The insulation is a required component for the wall to meet energy code R-value/U-factor requirements (per IECC or ASHRAE 90.1).

3. Why This is Critical

- * Insulation is essential for thermal performance, occupant comfort, and energy efficiency.
- * Omitting it from the estimate could cause:
 - * Noncompliance with code.
 - * Incomplete cost budgeting.
 - * Change orders during construction.
- * In ARE 5.0 PDD, architects must check that all components of an assembly are represented in the cost estimate.

4. References

- * NCARB ARE 5.0 Handbook - PDD Content Area 3: Integration of Building Materials & Systems
- * Architectural Graphic Standards - Precast wall sections with insulation
- * Building Construction Illustrated (Ching) - Continuous insulation in wall assemblies
- * Energy Code References: IECC Table C402.1.3 for minimum continuous insulation requirements in exterior walls

NEW QUESTION # 46

Which of the following siding types should only be applied vertically?

- A. Plain bevel
- **B. Board and batten**
- C. V-shiplap
- D. V-groove tongue and groove

Answer: B

Explanation:

Board and batten is a vertical siding system: wide vertical boards with narrow battens covering the joints; its detailing, drainage, and expansion behavior are intended for vertical application only.

By contrast, plain bevel (lap) siding is typically horizontal; V-shiplap and V-groove T&G can be detailed either direction depending on manufacturer, but are commonly horizontal on walls.

PDD References: Exterior wall cladding and detailing under "Materials & Assemblies-Exterior enclosure," CSI Div. 06 & 07 application details.

NEW QUESTION # 47

Which of the following metals is best suited for embedments in concrete or masonry?

- A. Cast iron
- **B. Stainless steel**
- C. Bronze
- D. Aluminum

Answer: B

Explanation:

When metals are embedded in concrete or masonry, corrosion resistance is a critical factor due to the alkaline environment and potential moisture exposure.

Stainless steel has excellent corrosion resistance, making it ideal for embedments in concrete or masonry where long-term durability is required.

Bronze is corrosion-resistant but typically used for decorative or hardware applications, not structural embedments. Aluminum corrodes readily in alkaline concrete environments and is not suitable for embedments without protective coatings. Cast iron is susceptible to rust and corrosion in moist conditions and is generally avoided for embedded components. Thus, stainless steel is best suited for durability and corrosion resistance in concrete/masonry embedments.

References:

NCARB ARE 5.0 Review Manual, Materials and Assemblies chapter

Building construction materials standards (ACI, ASTM) on metals in concrete Corrosion resistance guides for metals embedded in concrete

NEW QUESTION # 48

Coordination of a motorized movable partition used to subdivide a gymnasium should include which of the following?

- A. Fire protection engineer and the electrical engineer
- **B. Structural engineer and the electrical engineer**
- C. Fire protection engineer and the furniture and equipment consultant
- D. Structural engineer and the mechanical engineer

Answer: B

Explanation:

A motorized movable partition used to subdivide a gymnasium requires coordination with:

The structural engineer: to ensure the partition loads are supported, especially if the system is suspended or has track supports.

The electrical engineer: to provide power for the motorized operation, controls, and safety systems.

Mechanical and fire protection engineers are typically less involved unless the partition affects HVAC zones or fire separation requirements, and furniture consultants typically do not deal with structural or electrical coordination.

References:

NCARB ARE 5.0 Review Manual, Building Systems and Coordination chapter

Manufacturer installation guidelines for motorized partitions

MEP coordination best practices

NEW QUESTION # 49

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