

Quiz NCARB - PDD - Valid ARE 5.0 Project Development and Documentation Exam Exam Forum



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NCARB PDD Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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">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 4	<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 5

- 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.:

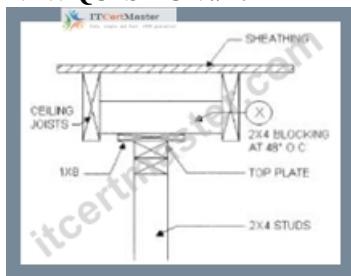
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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q19-Q24):

NEW QUESTION # 19



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

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 # 20

A family-owned apple farm in the Upper Midwest is taking advantage of a change in the local zoning code that added a new Agri-

Tourism class in the existing farm zone. This allows the Owner to build a new facility on their existing site. The building will be open to the public and include a brewery, distillery, tap room, and market. The architect is ready to submit the drawings to the Owner for the 50% construction documents review.

To accommodate a compressed construction schedule, the Owner will be utilizing a design-build process. The Contractor has submitted the Pre-Engineered Metal Building (PEMB) shop drawings to the Architect for review, due to the lead time on this critical path item. Once construction begins, farming operations must be able to continue uninterrupted.

Key project information includes:

- * Brewing and distilling will operate year-round.
- * Brewery will initially include four fermenting tanks. Owner has requested space for at least two additional tanks. Potential expansion will be based on future sales.
- * Distillery will produce 16% alcohol, which is classified as a flammable liquid. Fire separations are required.
- * Tap Room is designed with seating for 300 people, not including exterior patio seating. It will have views to the working orchards and the historic buildings on site.
- * Tap Room is scheduled to be open from August through November. Owner would like options to extend operating dates based on popularity.
- * The Market area will feature local farm products and is not conditioned.
- * Entire building will be fully sprinklered.
- * Selected building materials are low-maintenance, as requested by the Owner, for durability and to reflect the nature of a working farm.
- * Mechanical and electrical systems will be hung from the building structure. These loads are included in PEMB shop drawings.
- * Public water and sewer is not available at the Project Site.
- * Occupancy sensors are included to reduce utility costs and achieve energy conservation requirements.

The following resources are available for your reference:

- * Architectural Drawings, including plans, elevations, sections, and schedules
- * Consultant Drawings, including structural, HVAC, power distribution, and plumbing
- * PEMB Shop Drawings
- * Design and Construction Schedule
- * Specification Excerpts, showing relevant spec sections
- * IBC and ADA Excerpts, showing relevant code and accessibility sections
- * After reviewing the documents, the architect discovers a coordination issue in the corridor.

The client wants to add rooftop access for residents. Roof access features include:

Adding a vegetated roof system

Installing an elevated paver patio system

Limiting access to 50 residents at any time

What should the architect do to accommodate this revision? Check the four that apply.

- A. Consult structural engineer
- B. Provide additional roof details
- C. Provide an exterior exit stair
- D. Contact civil engineer
- E. Consult elevator manufacturer
- F. Revise exterior elevations

Answer: A,B,C,F

Explanation:

Interpreting the Scenario

The owner is requesting rooftop access for residents, featuring a vegetated (green) roof, an elevated paver patio, and occupancy limited to 50 people. These revisions introduce new design requirements triggered by building codes (means of egress, structural loads, architectural representation) and coordination challenges across disciplines.

Why Each Selected Option is Required

* Revise Exterior Elevations

* The addition of a rooftop terrace and vegetated roof changes the building's exterior appearance- its massing, parapets, materials, and possibly guardrail heights. These design changes must be reflected in the architectural drawings used for permit issuance and construction.

* Provide an Exterior Exit Stair

* Under the International Building Code (IBC) and general egress requirements, an occupied rooftop (used by people for recreation or amenities) must be safely accessible and egressed.

Occupied roofs require a stairway-an exterior exit stair-rather than just a hatch or ladder ICC+6NYC+6The Building Code Forum+6NYC+4lapeyrestair.com+4NYC+4. This ensures the rooftop can serve as a legal means of egress.

* Provide Additional Roof Details

* Adding a vegetated roof system and a paver patio involves multiple layers (waterproofing, root barrier, drainage, structural substrate, pavers, possibly amenity loading, edge details, guardrails).

The project manual and construction documents must include these specific details to ensure proper assembly and water protection.

* Consult Structural Engineer

* Vegetated roofs and paver patios introduce significant dead loads (soil, plants, saturated weight) and live loads (maintenance personnel, occupants). The structure must be verified to support these loads. Per green roof design standards, structural capacity must be evaluated early in the design process NYC. Consulting the structural engineer ensures safety and code compliance.

Why Other Options Do Not Apply

* E. Consult elevator manufacturer

* There's no indication that elevator access is required or available. Current code triggers elevator access only in specific scenarios (e.g., occupant loads exceeding certain thresholds combined with accessibility requirements). This project doesn't suggest such a need.

* F. Contact civil engineer

* The rooftop change pertains to architectural detailing, structural capacity, and life safety-not site-wide civil issues like grading, stormwater, or utilities. While the vegetated roof may affect overall stormwater management, primary concerns still fall under architectural and structural domains. Typical ARE scope categories engage the geotech/environmental or landscape professional-not necessarily the civil engineer-unless broader site infrastructure is impacted.

NEW QUESTION # 21

A family-owned apple farm in the Upper Midwest is taking advantage of a change in the local zoning code that added a new Agri-Tourism class in the existing farm zone. This allows the Owner to build a new facility on their existing site. The building will be open to the public and include a brewery, distillery, tap room, and market. The architect is ready to submit the drawings to the Owner for the 50% construction documents review.

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* PEMB Shop Drawings

* Design and Construction Schedule

* Specification Excerpts, showing relevant spec sections

* IBC and ADA Excerpts, showing relevant code and accessibility sections

* After reviewing the documents, the architect discovers a coordination issue in the corridor.

The owner wants to add a small storage closet with dimensions of 4'-0" L x 4'-0" W in the Laundry Room along column line 1. The closet will have access from the corridor only.

Which of the following documents require revision due to this addition? Check the three that apply.

- A. A103
- B. A102
- C. A101
- D. Building Systems Narrative
- E. Specification Excerpts

- F. Initial Cost Estimate

Answer: A,B,C

Explanation:

Understanding the Context

The addition of a 4'-0" x 4'-0" storage closet accessible from the corridor is a design scope modification. Even though this might appear minor, in the context of a Design-Build project delivery method, any change in the scope or spatial layout directly impacts the contract documents. Since the delivery model combines design and construction responsibilities under a single entity, accuracy and clarity in the Owner-Contractor Agreements (AIA A101, A102, or A103) is critical.

Why A101, A102, and A103 Require Revisions

* A101 - Standard Form of Agreement Between Owner and Contractor (Stipulated Sum): This document defines the scope, cost, and responsibilities of the contractor. Adding a storage closet may alter construction cost, schedule, or scope, which must be formally revised and incorporated via an amendment or change order.

* A102 - Standard Form of Agreement Between Owner and Contractor (Cost of the Work Plus a Fee with GMP): Similar to A101, but applies to projects with a Guaranteed Maximum Price (GMP).

The addition of new work, even small, may affect the GMP or contingency usage. Therefore, it also requires formal documentation of the scope change.

* A103 - Standard Form of Agreement Between Owner and Contractor (Cost of the Work Plus a Fee without a GMP): Again, even though no GMP is involved, changes to project scope must be documented for cost tracking and accountability.

According to NCARB ARE 5.0 PDD Handbook - Section: Project Manual and Contract Documents:

"The architect must evaluate how any proposed revisions to the work affect the project's scope, schedule, and budget. These revisions must be incorporated into the contract documents and may require issuing an amendment or modification to the contract." Furthermore, under Objective 4.2 - Evaluate and address changes in scope of work and scope creep, ARE candidates are expected to know when and how revisions impact contract documents.

In design-build delivery, all these contract forms must reflect any changes, even minor ones, because the contractor holds responsibility for both design and construction execution. Failure to reflect the change may lead to contractual disputes or unaccounted costs.

Why Other Options Do Not Apply

* D. Building Systems Narrative: This narrative typically outlines the design intent and basis for HVAC, electrical, and plumbing systems. A minor storage closet accessed from a corridor would not alter system layout or equipment sizing, and thus doesn't necessitate a revision to this document.

* E. Initial Cost Estimate: While the estimate may eventually need updating during cost reconciliation, the question specifically asks which documents require revision. The initial estimate is a schematic- level document that doesn't necessarily need to be revised for such a minor addition.

* F. Specification Excerpts: Unless the closet introduces new materials (e.g., special finishes, fire- resistive construction, unique fixtures), the specifications remain unchanged. The closet is likely using standard finishes already defined elsewhere in the spec.

Key PDD Content Areas Referenced

* Section: Construction Documentation - Identifying how changes affect working drawings and specifications.

* Section: Contracts and Project Manual - Understanding the impact of scope changes on contract documents.

* Objective 4.2 - Evaluate and address changes in scope of work and scope creep.

* Objective 1.2 - Interpret contract documents to determine if revisions affect project scope, schedule, or budget.

NEW QUESTION # 22

An architect has a contract with a local school district to redesign a school reception office to ensure a more efficient interaction between office staff, students, and parents. The following instructions are given to the architect:

* The renovation scope is limited to the footprint only of the existing reception office.

* Additional staff is not proposed for the renovated area.

* The existing ceiling and associated fixtures will be protected from damage during construction.

* The construction of the renovation must occur during the 10-week summer break.

Which of the following series drawings should be included in the documents set?

- A. Mechanical
- B. Electrical
- C. Plumbing
- D. Structural

Answer: B

Explanation:

The scope involves interior renovation of an existing school reception office, limited to the footprint and protecting existing ceiling and fixtures. Additional staff is not proposed, and construction is during a defined 10-week summer break.

Plumbing is unlikely to require new or modified systems unless specified; not mentioned here.

Structural changes are not indicated since footprint remains same and no structural modifications are noted.

Mechanical changes would typically be required if HVAC or ventilation systems are altered, but the ceiling and fixtures (likely including diffusers) must be protected and are presumably left unchanged.

Electrical modifications are common in interior renovations to accommodate lighting, power outlets, communication systems, and potentially security or reception technology updates.

Thus, electrical drawings should be included to cover these updates.

Reference:

NCARB ARE 5.0 Review Manual, Project Development and Documentation, Construction Documents chapter Typical interior renovation scopes often require electrical updates to accommodate new equipment and code compliance.

NEW QUESTION # 23

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

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 # 24

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