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NCARB PDD – Questions With Complete Solutions

The role of a specifier? Right Ans - 1. determine the responsibility for structural specs with structure engineer;
2. coordinating standardized keynotes lists to be used on all drawings with the architect;
3. obtain a preferred general condition document from the client through the architect;
4. recommending everyone to use BIM;

What are included in the preliminary studies? Right Ans - 1. allowable height;
2. allowable area and occupant allowance;
3. fire rating requirements;

Percolation rate is used to determine what? Right Ans - To determine whether porous pavement should be used.

Forest Steward Council (FSC) Right Ans - Harvesting tree without violating people's right.

Under what condition can you put storage under stair? Right Ans - If it's protected with a minimum of 1-hour rated construction.

Where should the fire extinguisher cabinet (FEC) located? Right Ans - 48" - 60" AFF, no more than 4" extrusion.

Tear-out, Pull-through Right Ans - Tear-out: shear failure in a bolted connection due to tension at hole;
Pull-through: a compression failure where bolts pull through the holes.

ANSI, ASTM Right Ans - ANSI: American National Standard Institute;
ASTM: American Society for Testing Material, it's used for testing materials.

Composition of cement Right Ans - Limestone, clay, iron ore, gypsum

Subsystem estimate is used in which phases of design? Right Ans - SD and DD. Subsystem estimates deal with a project's functional units and it enables

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NCARB PDD Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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	• 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 5	• 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.

NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q59-Q64):

NEW QUESTION # 59

Which of the following documents defines the responsibilities and duties of the contractor during construction?

- A. A101
- B. B101
- C. A201
- D. G702

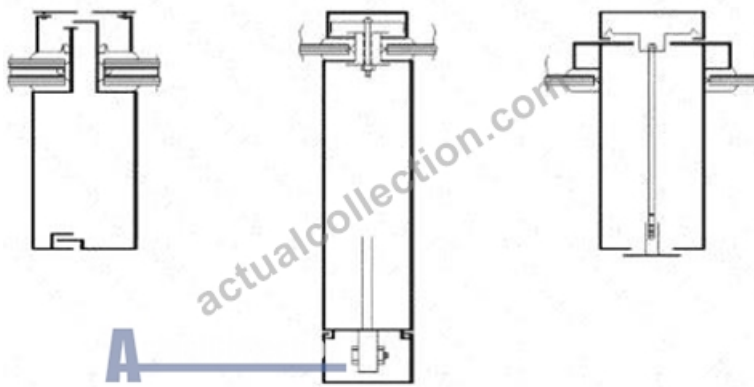
Answer: C

Explanation:

A201 is the General Conditions of the Contract for Construction and outlines duties, rights, and responsibilities of the contractor. This includes site supervision, safety, and conformance with documents.

ARE Handbook Objective 1.4 focuses on interpreting contract documents.

NEW QUESTION # 60



Refer to the exhibit.

In the curtain wall systems shown, each of the aluminum mullions is designed to allow for which of the following?

- A. Horizontal expansion
- B. Surface tension
- C. Vertical expansion
- D. Capillary action

Answer: C

Explanation:

1. Understanding the Diagram

The three sections in the exhibit show different curtain wall mullion profiles (vertical and horizontal sections) designed for glazing systems.

In curtain wall design, aluminum mullions must accommodate:

- * Structural loads (wind, dead load of glass, seismic)
- * Thermal expansion and contraction of metal members
- * Building movement (floor-to-floor deflection, live load, creep, seismic drift)

2. Why Vertical Expansion is Relevant

- * The vertical mullions in curtain wall systems span multiple floors and are typically anchored at one end and allowed to float/slip at the other end to accommodate vertical building movement.
- * Movement can be due to:
 - * Thermal expansion of aluminum mullions (aluminum has a high coefficient of thermal expansion).
 - * Inter-story drift from lateral loads.
 - * Floor live-load deflection.
- * The mullion joinery and connections at the anchors are specifically detailed to allow vertical sliding while maintaining weather seals.

3. Why Other Options Are Incorrect

- * A. Capillary action - This refers to water movement in small spaces; curtain walls are designed with weeps and pressure-equalized cavities to prevent it, but that is not what the mullion's slip connections are for.
- * B. Horizontal expansion - Horizontal movement is generally handled at horizontal mullions/transoms or gasket joints, not the vertical mullion extrusion as shown.
- * D. Surface tension - Refers to water behavior, not a structural or thermal movement design issue.

4. NCARB ARE 5.0 PDD Study Guide References

- * Content Area: Building Envelope Systems - Curtain Wall Detailing
- * Key Sources:
 - * Architectural Graphic Standards - Curtain wall movement joints
 - * Building Construction Illustrated (Ching) - Curtain wall expansion and anchoring details
 - * AAMA (American Architectural Manufacturers Association) Curtain Wall Design Guide - Section on thermal movement and inter-story drift

NEW QUESTION # 61

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

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

Answer: C

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 # 62

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 owner decides to triple the size of the distillery component of the project to make hand sanitizer and wants to use the Tap Room spaces adjacent to the brewery and distillery for this purpose.

Which of the following must the architect reevaluate and change to accommodate this request? Check the three that apply.

- A. A-06 EXTERIOR ELEVATIONS
- B. A-03 FLOOR PLAN
- C. A-04 REFLECTED CEILING PLAN
- D. A-02 SITE PLAN
- E. A-05 ROOF PLAN
- F. A-01 LIFE SAFETY PLAN

Answer: B,C,F

Explanation:

Tripling the distillery and converting adjacent Tap Room areas to production introduces additional hazard (flammable liquids), changes occupancies/occupant loads, and requires updated fire separations and egress.

A-01 Life Safety Plan must be revised for occupancy classification, fire/resistance ratings between uses, travel distances, exit widths/number, and signage.

A-03 Floor Plan must change to show new room uses, rated partitions/doors, openings, and equipment footprints.

A-04 Reflected Ceiling Plan must change for new/relocated rated assemblies at ceilings (e.g., continuity of fire/smoke barriers), sprinkler/exit sign/FA device locations, and any duct-damper/access changes.

Site (B), Roof (E), and Elevations (F) are not directly driven by the interior use change.

PDD refs: IBC Chs. 3, 5-10 (occupancy, separation, egress), coordination of architectural, fire protection, and MEP on drawings (Division 01).

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Which modification is required?

- A. Relocate supply and return air diffusers.
- B. Add exit sign at door number 15.
- C. Add access panel for shut-off valves.

Answer: C

Explanation:

At 50% CDs with early PEMB coordination and compressed schedule, typical cross-discipline clashes in corridors involve above-ceiling valves/dampers that lack required access from a public space. Plumbing and mechanical codes require accessible, labeled access panels for isolation/shut-off valves (and similar devices) located in concealed spaces so they can be serviced without disrupting operations-critical here because farm work must continue during construction/operation.

Exit sign at door #15 (A) depends on egress analysis; not a generic coordination issue.

Relocate diffusers (B) is a comfort/layout decision, not a compliance coordination issue unless they conflict with lights/sprinklers.

PDD refs: IMC/IPC provisions for access to valves and equipment in concealed spaces; Division 08/10 access panels; ARE 5.0

PDD-Coordination of MEP with architectural ceilings and corridors.

NEW QUESTION # 64

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