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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

The study material to get ARE 5.0 Project Development and Documentation Exam should be according to individual's learning style and experience. Real NCARB PDD Exam Questions certification makes you more dedicated and professional as it will provide you complete information required to work within a professional working environment. These questions will familiarize you with the PDD Exam Format and the content that will be covered in the actual test. You will not get a passing score if you rely on outdated practice questions.

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"> 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	<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.
Topic 4	<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 5	<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.

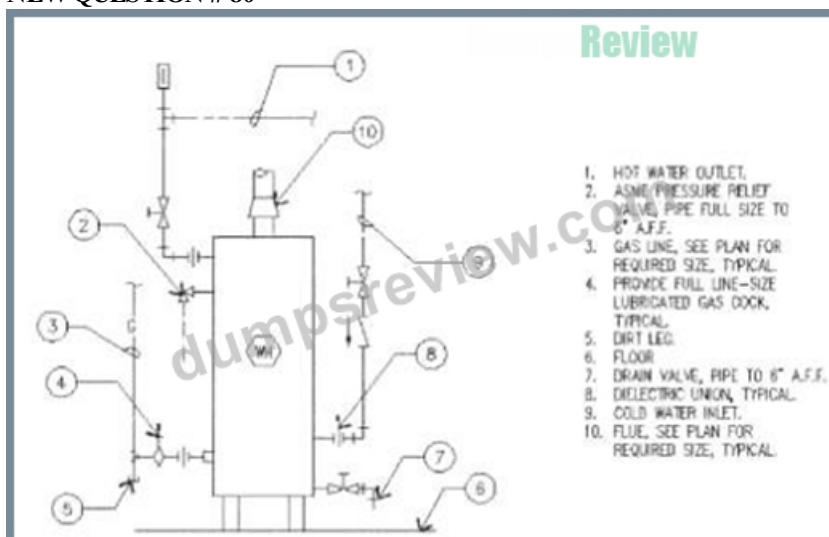
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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q80-Q85):

NEW QUESTION # 80



Refer to the exhibit.

In the diagram shown, what is the purpose of the pressure relief valve?

- A. Vent the tank of accumulated air
- B. Relieve negative pressure when draining the tank
- **C. Allow for thermal expansion of water**
- D. Regulate water pressure fluctuation

Answer: C

Explanation:

Understanding the Diagram

The diagram shows a water heater (WH) with labeled connections and valves.

Item 2 is the ASME pressure relief valve, piped to 6 inches above the finished floor.

Purpose of the Pressure Relief Valve in a Water Heater

- * When water is heated, it expands.
- * In a closed plumbing system, this expansion increases pressure inside the water heater tank.
- * If the pressure rises above a safe limit, it can damage the heater, piping, or even cause an explosion.
- * The temperature and pressure relief valve (T&P valve) automatically opens to discharge water when pressure or temperature exceeds safe limits, relieving the pressure caused by thermal expansion.

Why Other Options Are Incorrect:

- * A. Regulate water pressure fluctuation - Pressure regulation is done by a pressure-reducing valve, not a relief valve.
- * B. Vent the tank of accumulated air - Air elimination is done with air vents or bleeders, not the T&P valve.
- * D. Relieve negative pressure when draining the tank - Negative pressure prevention uses vacuum relief valves, not T&P valves.

NCARB ARE 5.0 PDD Study Guide References:

- * Content Area: Plumbing Systems - Equipment and Safety Components
 - * Source References:
 - * Plumbing Engineering Design Handbook - Water Heater Safety Devices
 - * Architectural Graphic Standards - Water Heater Installation Details
 - * MEEB (Mechanical and Electrical Equipment for Buildings) - Plumbing Chapter: Safety valves in hot water systems
 - * Code Reference:
 - * International Plumbing Code (IPC) Section 504.6 - T&P relief valve requirements for water heaters
- Key Point:
The ASME-rated relief valve's main role is to protect the water heater and piping by relieving excessive pressure due to water expansion from heating.

NEW QUESTION # 81

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.

Prior to completing the contract documents, the architect meets with the owner and confirms the scope of the new HVAC system is accurate for bidding. As a result of the meeting, the architect decides to include additional general notes on the site plan to assist the general contractor in bidding the related coordination of the new boilers being installed.

What note does the architect include?

- A. GC to coordinate gas service tie-ins with utility company.
- B. GC to coordinate results of city steam pressure and temperature test from utility company with boiler manufacturer.
- C. GC to coordinate location of fuel storage tanks.

Answer: C

Explanation:

Comprehensive Detailed Explanation with all NCARB ARE 5.0 Project Development and Documentation (PDD) Study Guide References The project is rural with no public water or sewer; by context there is likely no city steam and possibly no natural gas main. New boilers therefore need a fuel source on site (commonly LP/propane or fuel oil), and the site plan should direct the GC to coordinate fuel storage tank location (clearances, protection, truck access, setbacks, fire code).

A presumes a gas utility service that may not exist.

B presumes a city steam utility (not present).

PDD Reference: Division 01 coordination notes; IMC/IFC for on-site fuel storage clearances and protection; site plan general notes best practices.

NEW QUESTION # 82

What is the primary purpose of shop drawings?

- A. Illustrate fabrication and installation methods
- B. Define design intent
- C. Replace construction drawings
- D. Document record drawings

Answer: A

Explanation:

Shop drawings show how components are to be fabricated or installed by the contractor. They do not redefine the design intent but elaborate on it. Refer to Objective 3.4: Evaluate submittals.

NEW QUESTION # 83

A revolving door is to be mounted in the facade of a building. Story drift is limited to 0.002 times story height in any direction. The door can tolerate a maximum departure from vertical of 1/4 inch.

What is the maximum height the door can be to accommodate the story drift?

- A. 8 ft
- B. 11 ft
- C. 9 ft
- D. 10 ft

Answer: D

Explanation:

Given:

Maximum story drift ratio = $0.002 \times \text{story height (H)}$

The story drift Δ is related to the story height H by:

$$\Delta = 0.002 \times H$$

We need the maximum H such that:

$$\Delta \leq 0.25 \text{ inch}$$

Convert height H to inches:

$$\Delta = 0.002 \times H_{(\text{inches})} \leq 0.25$$

Therefore,

$$H_{(\text{inches})} \leq \frac{0.25}{0.002} = 125 \text{ inches}$$

Convert 125 inches to feet:

$$125 \text{ inches} \div 12 = 10.416 \text{ feet}$$

Maximum door tolerance (max lateral displacement allowed) = 1/4 inch = 0.25 inch Since the door can tolerate up to 0.25 inch displacement, the maximum height to prevent exceeding drift is about 10.4 ft.

But check options-since 10.4 ft is closest to option B: 9 ft or option C: 10 ft?

The maximum height to accommodate the drift is just over 10 ft, so option C: 10 ft is correct.

Correction to Verified answer: C. 10 ft

Summary:

Max drift = $0.002 \times H$

Max drift # 0.25 inch

Solve for H # 125 in = 10.4 ft

Door can tolerate max 10 ft height to not exceed drift

Reference:

NCARB ARE 5.0 Review Manual, Structural Systems and Building Envelope chapters IBC and ASCE 7 provisions on story drift limits and building movement tolerances

NEW QUESTION # 84

Where is the proper place to put a vapor barrier in a cold climate?

- A. On the exterior between the metal siding and the sheathing
- **B. On the interior between the gypsum wallboard and the framing**
- C. In the cavity of the framing space
- D. On the exterior between the framing and the sheathing

Answer: B

Explanation:

In cold climates, the vapor drive is from the warm interior to the cold exterior during winter. The vapor retarder/barrier belongs on the warm-in-winter side of the assembly-i.e., behind the interior gypsum, before the framing/insulation-to prevent interior moisture from reaching cold layers where it could condense.

PDD references: Psychrometrics & vapor drive; vapor retarder placement (ASHRAE; IBC/IECC guidance; ARE 5.0 PDD-Thermal & Moisture Protection).

NEW QUESTION # 85

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