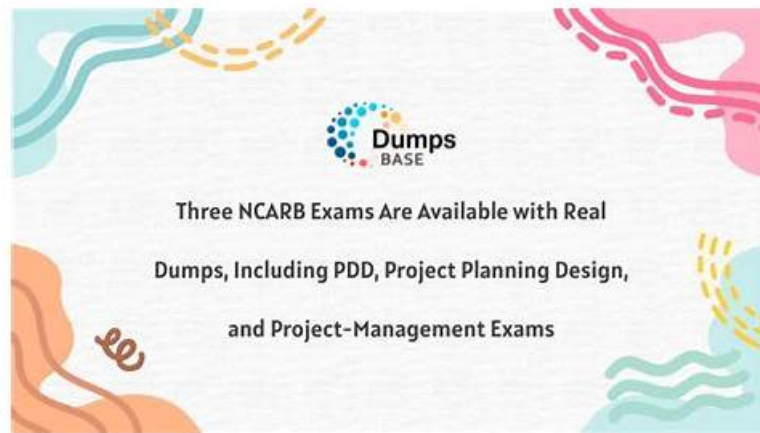


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NCARB PDD Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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"> • 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.
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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q97-Q102):

NEW QUESTION # 97

Why is the vertical surface of a dry-stacked stone wall often battered into the retained material?

- A. Increased resistance to surface erosion of the wall
- **B. Increased resistance to soil thrust**
- C. Increased cohesion between individual stones that make up the wall
- D. Increased impermeability that reduces equivalent fluid pressure

Answer: B

Explanation:

A battered (leaning back) face on a dry-stacked retaining wall improves stability against lateral earth pressure by shifting the wall's resultant closer to/within the middle third of the base, increasing frictional resistance and reducing overturning. It does not significantly change permeability (C) or directly increase cohesion between stones (D), and erosion resistance (B) is secondary compared to stability.

PDD References: Site & foundation systems-retaining wall behavior, active/passive earth pressures; IBC /Geotechnical fundamentals; CSI Div. 32 site improvements.

NEW QUESTION # 98

Which of the following documents would the architect need in order to prepare the specifications?

- A. Legal survey, engineering drawings, and door schedule
- B. Legal survey, geotechnical report, and traffic management plan
- **C. Geotechnical report, building sections, and room finish schedule**
- D. Architectural floor plans, room finish schedule, and traffic management plan

Answer: C

Explanation:

To prepare project specifications, the architect requires documents that inform about site conditions, building construction, and interior finishes:

Geotechnical report provides soil conditions, foundation recommendations, and site constraints.

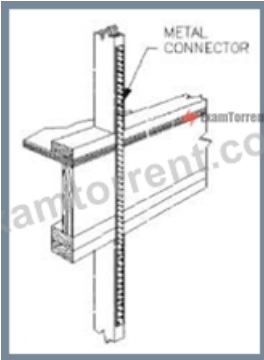
Building sections provide detailed information on assemblies, materials, and vertical relationships.

Room finish schedule identifies finishes, materials, and related specifications for interior spaces.

Legal surveys, traffic management plans, and door schedules are important for planning and design coordination but less directly informative for writing specifications.

References:

NEW QUESTION # 99



Refer to the exhibit.

The metal connector shown is primarily designed to resist which one of the following?

- A. Sliding
- B. Twisting
- C. Racking
- **D. Uplift**

Answer: D

Explanation:

The detail shows a metal connector fastening a vertical framing member (stud or post) to a horizontal member (likely a top plate or beam). This type of metal connector—often a hurricane tie or hold-down—is designed to anchor the vertical framing to the horizontal framing to prevent separation caused by uplift forces.

Key points:

- * Uplift occurs when wind loads or seismic activity try to pull the roof or upper framing away from the wall below.
- * The connector wraps over and around members, securing them together.
- * Commonly used in roof-to-wall connections to comply with wind resistance requirements in the IBC and ASCE 7.
- * This does not primarily resist sliding (shear) or racking (lateral deformation of a frame), nor is it designed mainly for twisting (torsion).

PDD ARE Objective Tie-in:

ARE 5.0 PDD Objective 3.2 - Evaluate and integrate structural systems with architectural elements, ensuring proper load path continuity for resisting vertical and lateral loads, including uplift forces.

NEW QUESTION # 100

Which elevator type is the most appropriate choice for a 15-story high-rise residential condominium where speed and noise are considerations?

- **A. Gearless traction**
- B. Geared traction
- C. Hole-less hydraulic
- D. Holed hydraulic

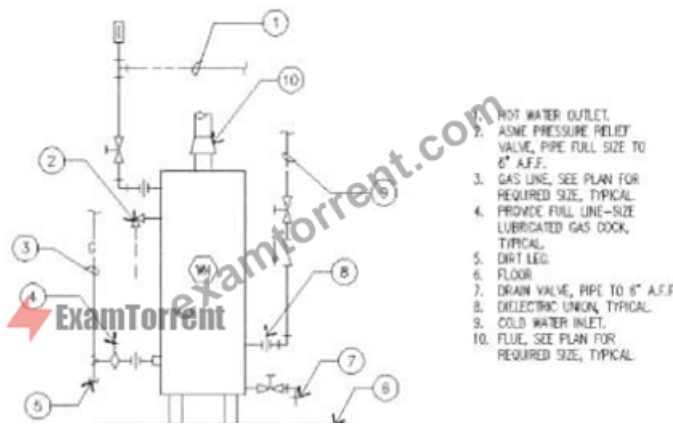
Answer: A

Explanation:

For a 15-story high-rise where speed and noise matter, gearless traction elevators are the standard choice: highest speeds, smoother/quiet operation, and efficiency for taller buildings. Hydraulic (holed or hole-less) are limited to low-rise (#2-6 stories) and are slower/noisier; geared traction is mid-rise with lower speeds and more noise than gearless.

PDD references: Vertical transportation selection criteria—rise vs. technology; ARE 5.0 PDD "Building Systems—Elevators."

NEW QUESTION # 101



Refer to the exhibit.

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

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

Answer: D

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 # 102

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