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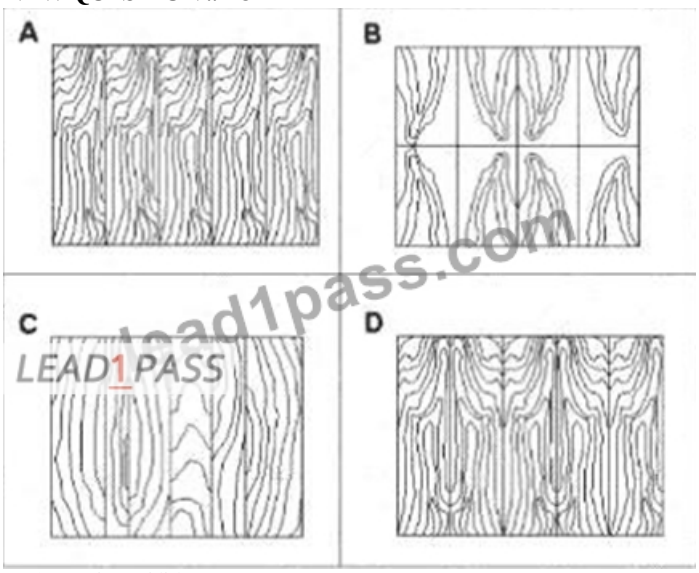
NCARB PDD Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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	• 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	• 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.

NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18



Refer to the exhibit.
Which of the following examples of wood paneling depicts the method of "slip matching" between adjacent wood veneers?

- A. D
- B. A
- C. C
- D. B

Answer: B

Explanation:
Understanding Slip Matching in Wood Veneer
When wood veneer is sliced from a log, each sheet (or "leaf") has a repeating grain pattern. How those sheets are arranged side-by-side on a panel is called the matching method.
Slip Matching:
* Consecutive leaves are laid side-by-side without flipping or reversing them.
* This creates a repeating grain pattern that flows consistently across the panel.
* The result is a uniform, continuous grain with no "mirror image" effect - the cathedrals and figure in the grain run in the same direction from sheet to sheet.

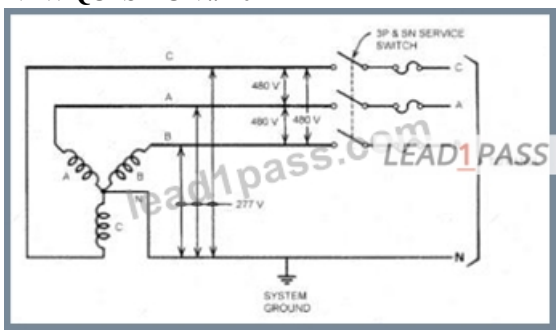
* Slip matching often produces a striped effect if the grain is straight, or a flowing, consistent repeat if the grain is more figured.
Identifying Slip Matching in the Exhibit:
* Option A shows consecutive veneer leaves with the grain pattern running in the same orientation across the panel - no mirroring, only repetition. This is classic slip match.
* Option B shows book matching - where every other leaf is flipped horizontally to create a mirrored grain pattern.
* Option C appears to be random matching - leaves are placed without grain sequence alignment.
* Option D shows reverse slip matching - similar to slip match but alternating leaves are reversed end- to-end.
NCARB ARE 5.0 PDD Study Guide References:
* Content Area: Integration of Materials & Finishes - Millwork and Casework Veneer Matching Methods
* Sources:
* Architectural Woodwork Standards (AWS) - Section on Veneer Matching
* Architectural Graphic Standards - Finish Carpentry and Veneer Matching
* Building Construction Illustrated (Ching) - Interior Finish Carpentry Key Point:
Slip matching keeps all veneer leaves in the same orientation, producing a consistent flow of the grain without the mirrored effect seen in book matching.

NEW QUESTION # 19
Which of the following documents should be coordinated in the design of a barrier-free building entrance?

- A. Vertical elevations, hardware schedule, and electrical drawings
- B. Door schedule, vertical elevations, and structural plans
- C. Door schedule, hardware schedule, and alarm system design
- D. Hardware schedule, electrical drawings, and sprinkler drawings

Answer: C

Explanation:
Designing a barrier-free (accessible) building entrance requires coordination among:
Door schedule: Door sizes, types, clearances, and thresholds
Hardware schedule: Handles, closers, locks, and accessibility hardware (e.g., lever handles, automatic operators) Alarm system design: To ensure audible and visual alarms meet ADA requirements for people with disabilities, particularly for emergency egress
Other documents like electrical and structural plans are important but less directly related to barrier-free entrance compliance.
Reference:
NCARB ARE 5.0 Review Manual, Accessibility and Codes chapter
ADA Standards for Accessible Design

NEW QUESTION # 20


Refer to the exhibit.
What set of conductors should the building fluorescent Lighting be connected to?

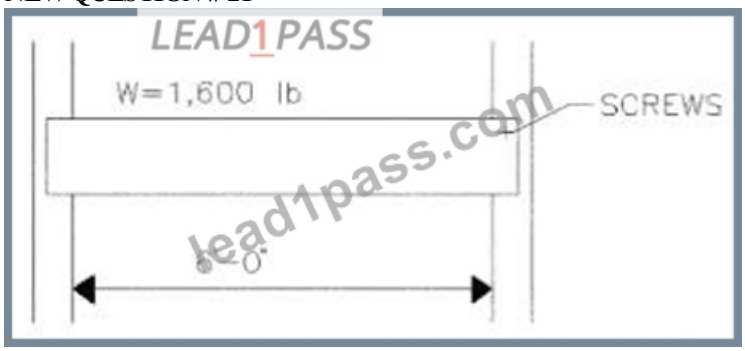
- A. C,N
- B. C,A,N
- C. A, B
- D. C, A, B

Answer: A

Explanation:
Understanding the Diagram

The diagram shows a 480Y/277V three-phase, four-wire wye-connected system with a neutral (N) and system ground.
* 480 V = Voltage between any two phase conductors (line-to-line)
* 277 V = Voltage between any one phase conductor and neutral (line-to-neutral) Fluorescent Lighting Voltage Requirements
* Standard commercial fluorescent lighting systems are typically designed for 277 V operation in the U.S.
(in buildings with a 480Y/277V system).
* To achieve 277 V, you connect one phase conductor (A, B, or C) to Neutral (N).
* This is a single-phase line-to-neutral connection.
Which Conductors to Use?
* In the given options, the correct pair must give 277 V.
* C, N # 277 V line-to-neutral # Correct for fluorescent lighting.
* Other options produce different results:
* A, B = 480 V (line-to-line) - too high for fluorescent ballasts.
* C, A, B = all three phases - used for three-phase loads, not lighting.
* C, A, N - would give two circuits, but includes extra phase unnecessarily for single-phase lighting.
NCARB ARE 5.0 PDD Study Guide References:
* Content Area: Electrical Systems - Power Distribution and Circuiting for Lighting
* Source References:
* Electrical Systems for Architects - Fluorescent lighting voltage selection
* MEEB (Mechanical and Electrical Equipment for Buildings) - Chapter on Electrical Service and Lighting Systems
* NEC (National Electrical Code) - Voltage to ground for wye-connected systems Key Point:
For a 480Y/277V wye system, fluorescent lighting should be connected from any phase to neutral for 277 V operation.

NEW QUESTION # 21



Refer to the exhibit.
Using metal stud framing, how many screws per stud are needed to connect the header if each screw is rated at 440 pounds for shear and 215 pounds for tension?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: D

Explanation:
Given:
Load (W) = 1,600 lb
Screw shear capacity = 440 lb per screw
Screw tension capacity = 215 lb per screw
Assuming worst case is shear capacity (usually governs):

Calculate screws required:

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$$\text{Number of screws} = \frac{\text{Load}}{\text{Screw capacity}} = \frac{1,600}{440} \approx 3.64$$

Since you cannot have a fraction of a screw, round up to the next whole number, **4 screws.**

However, tension capacity is lower at 215 lb, so check if tension governs:

$$\frac{1,600}{215} \approx 7.44$$

If tension applies, 8 screws needed.

If tension applies, 8 screws needed.
If tension applies, 8 screws needed.
But typically, shear governs for header connection; since question likely focuses on shear, 4 screws would be safest.
If question expects minimal number to resist both, 8 screws would be correct.
Final answer: 4 screws (Option C) if shear governs; if considering tension also, 8 screws (Option D).
Since the question is ambiguous, and shear usually controls, C. 4 screws is appropriate.
Reference:
NCARB ARE 5.0 Review Manual, Structural Systems chapter
Metal stud framing connection design standards

NEW QUESTION # 22
During the documentation of an office building, the owner requests a fitness center amenity be added to the scope. The mechanical engineer informs the architect that the mechanical unit currently located on a utility mezzanine will need to increase in size to accommodate the required increased capacity.
Who should the architect confirm with that the larger unit will work in this location?

- A. Authority having jurisdiction
- B. Accessibility consultant
- C. Structural engineer
- D. Building owner

Answer: C

Explanation:
When the mechanical unit on a utility mezzanine increases in size:
The structural engineer must confirm the mezzanine can support the increased weight and dynamic loads of the larger unit.
The architect coordinates with the structural engineer to ensure structural integrity.
The building owner is informed but not responsible for technical assessment.
The authority having jurisdiction (AHJ) oversees code compliance but not structural verification.
Accessibility consultant deals with accessibility issues, not mechanical equipment sizing.
Reference:
NCARB ARE 5.0 Review Manual, Project Development and Documentation chapter Building systems coordination and structural integration

NEW QUESTION # 23
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