PDD최고품질덤프샘플문제다운최신시험패스하여자격증취득하기

PassTIP PDD 최신 PDF 버전 시험 문제집을 무료로 Google Drive에서 다운로드하세요: https://drive.google.com/open?id=12qqMQowr4n-yEOxAvui1okIlGivkSYAu

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NCARB PDD 시험요강:

주제	소개
주제 1	• 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.

주제 2	• 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.
주제 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.
주제 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.:
주제 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.

PDD인증시험대비 덤프공부 - PDD높은 통과율 시험자료

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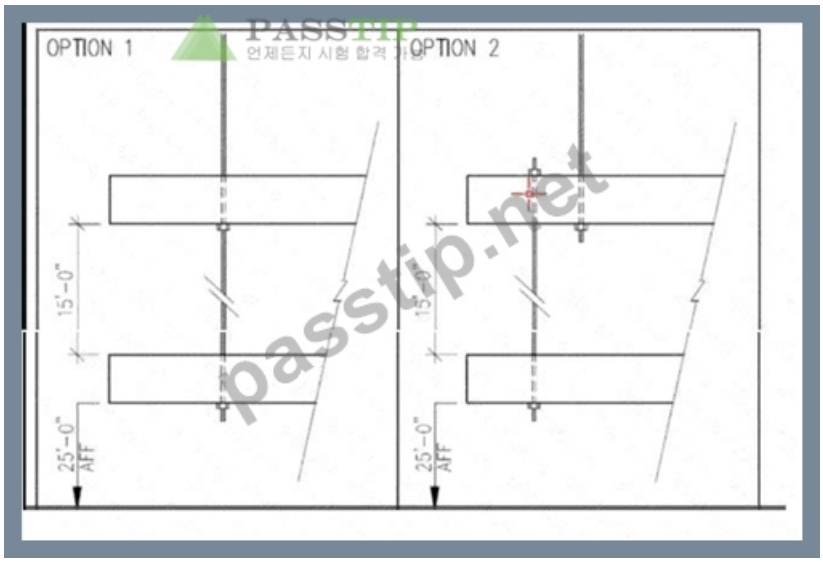
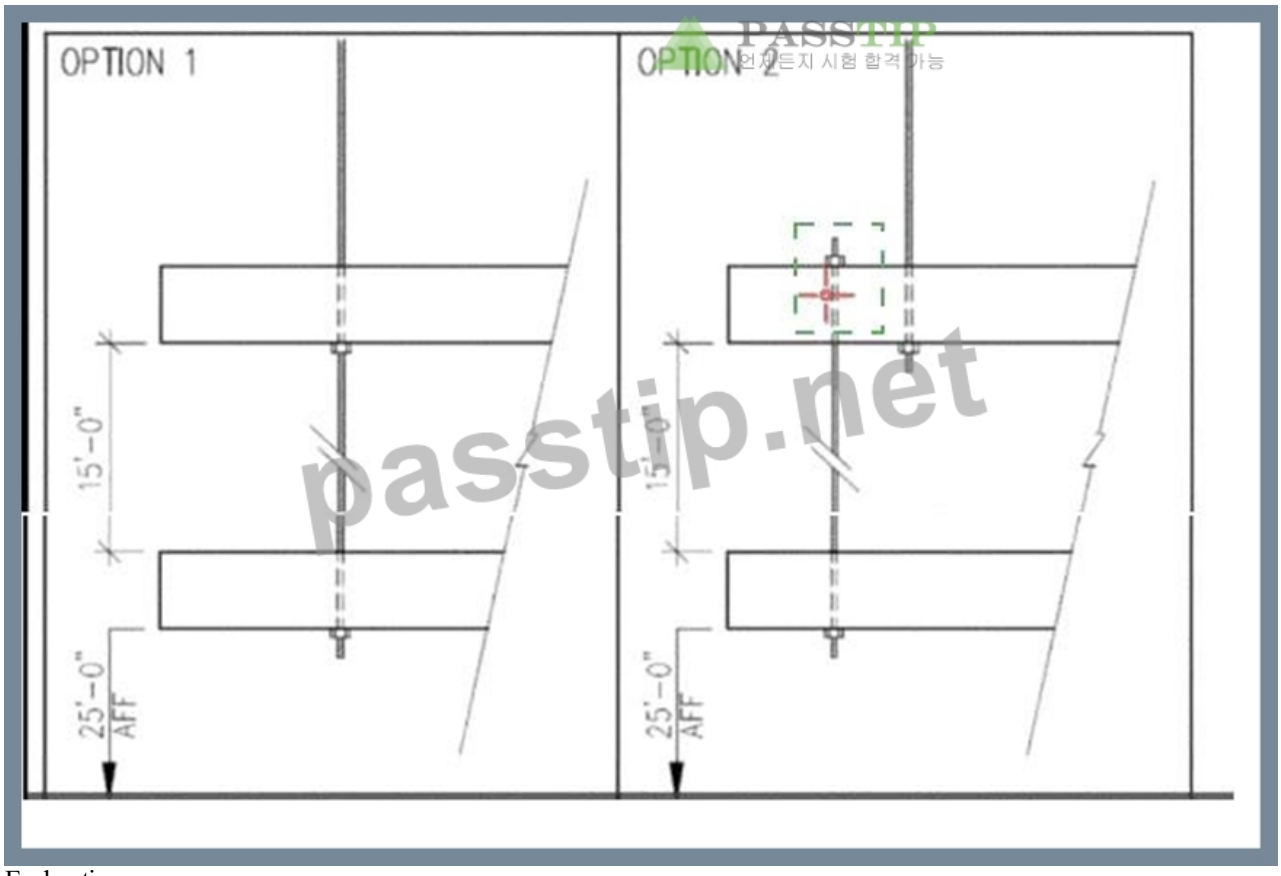
최신 Architect Registration Examination PDD 무료샘플문제 (Q87-Q92):

질문 # 87
Option 1 is the originally designed connection detail for a banner hanging system of steel tube beams and threaded rods in a high atrium space. The threaded rod connections to the structure are fabricated as part of the structure. The remaining members are field fabricated. The weights of beam and banner are identical at each level. Option 2 has been proposed to alleviate constructability issues. The structural ramifications must be evaluated before this change can be approved.
Click on the nut in option 2 that will realize a greater load due to the proposed change.



정답：

설명：



Explanation:
The upper nut at the top connection in Option 2 (the nut above the upper tube beam, highlighted at left).
By moving the threaded rod off the member's centroid in Option 2, the connection becomes eccentric. That eccentricity introduces a prying/bending moment at the rod/beam interface in addition to the vertical load from the banner and beam. In a through#rod with a nut above and below the member, the bottom nut primarily resists the direct gravity load in the concentric case (Option 1). When eccentricity is added (Option
2), rotation of the member about the rod induces additional uplift on the top nut (prying action), thereby increasing the force in the top nut relative to the concentric case.
Hence, the nut that will realize the greater load due to the proposed change is the upper nut at the top connection.
References
* NCARB ARE 5.0 PDD Handbook - Structural Systems & Detailing: Connections and eccentric loading.
* AISC Steel Design Guide: Prying Action in Bolted Connections (eccentric connections increase tensile force on the "prying" fastener).

* Ching, Building Construction Illustrated - Steel connections and load paths.

질문 # 88
A wall separating a distillery and a taproom must meet which of the following requirements based on a flammable liquid presence?

- A. 2-hour fire wall
- B. 1-hour fire barrier
- C. 3-hour fire barrier
- D. 1-hour smoke partition

정답：A

설명:
Per IBC Chapter 6 and Chapter 7, distillation involving flammable liquids requires a 2-hour fire-resistance- rated fire wall between H-occupancy (hazardous) and assembly use (A-2). Objective 1.3 of the PDD Handbook emphasizes understanding of life safety code implications in space planning.

질문 # 89
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.

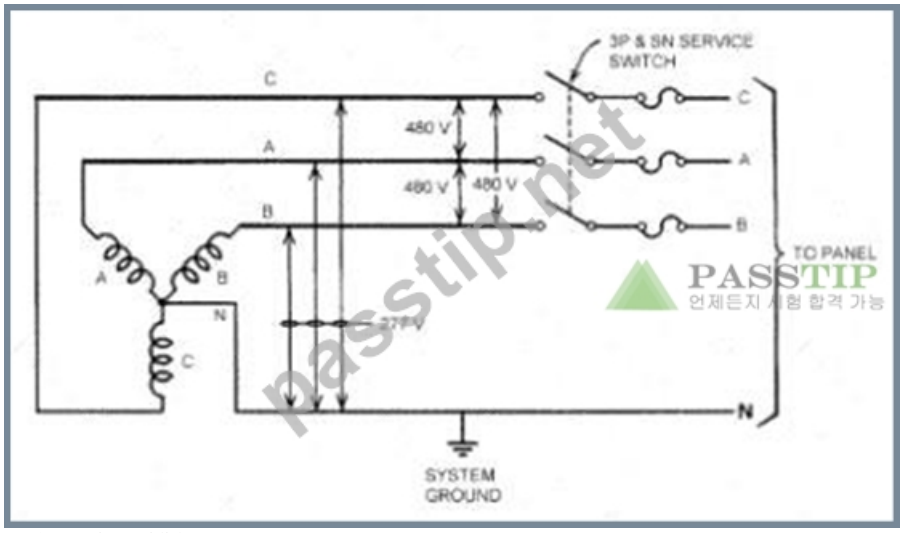
- A. Provide an exterior exit stair
- B. Revise exterior elevations
- C. Consult elevator manufacturer

- D. Provide additional roof details
- E. Contact civil engineer
- F. Consult structural engineer

정답： A,B,D,F

설명：
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.

질문 # 90



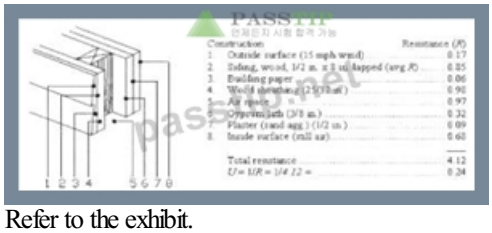
Refer to the exhibit.
What set of conductors should the building fluorescent Lighting be connected to?

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

정답：C

설명：
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.

질문 # 91



Refer to the exhibit.
What will the overall coefficient of Heat Transmission (U-value) of the building assembly illustrated in the attached figure become if unfaced R-19 batt insulation is added in the stud spaces in the wall cavity?

- A. 0.043
- B. 0.240
- C. 0.052
- D. 0.024

정답：A

설명：
From the exhibit, the existing wall has a total thermal resistance R = 4.12.
Overall heat transmission (U-value) is U = 1/R = 1/4.12 # 0.24, which matches the figure.
If unfaced R#19 batt insulation is added in the stud cavity, the total resistance increases by 19:
A math equations and numbers AI-generated content may be incorrect.

$$R_{\text{new}} = 4.12 + 19 = 23.12$$

$$U_{\text{new}} = \frac{1}{R_{\text{new}}} = \frac{1}{23.12} \approx 0.043$$

Thus, the overall **U-value ≈ 0.043**.

(Note: This simplified calculation assumes full, continuous R-19 in the cavity and ignores thermal bridging through studs—consistent with typical exam problems unless otherwise noted.)

References (ARE PDD Study):
* Architectural Graphic Standards-Thermal properties of envelope assemblies; R and U relationships.
* Building Construction Illustrated (Ching)-Heat flow through walls and calculating U-values.
* NCARB ARE 5.0 Handbook-PDD: Building Envelope performance and energy calculations.

질문 # 92
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