

Vce PDD Exam | Pass PDD Guide

PDD Study Exam 1 Questions & Answers 2024/2025

When should an architect submit drawings to the proper planning and permitting authority to begin the approval process? - ANSWERS After DD phase once a set of drawings has been prepared specifically for permitting purposes

SW - ANSWERS Most durable brick and acceptable for use when exposed to freeze-thaw cycles when wet or when bricks are in contact with ground

MW or MX - ANSWERS Brick is acceptable where it will not be exposed to freeze-thaw cycles when wet. Lower compressive strength than SW brick

NW or NX - ANSWERS Brick that acceptable when it will never be exposed to color or damp conditions such as when used indoors

FBS - ANSWERS Brick for general use in masonry

FBX - ANSWERS Brick for general use in masonry where requirements call for a higher degree of precision and low or permissible variation in size than permitted for FBS

FBA - ANSWERS Brick for general use in masonry selected to produce characteristics architectural effects resulting from nonuniformity in size and texture of the individual units

A701 - ANSWERS Addenda will be issued no later than four days prior to the date for receipt of Bids except an addendum with drawing the request for bids or one which includes postponement of the date for receipt of bids

During the bidding period for a new sports complex, the architect receives a request for information from one of the bidding contractors. The architect determines that the construction documents need to be revised.

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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q20-Q25):

NEW QUESTION # 20

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.

Which modification is required?

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

Answer: B

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.

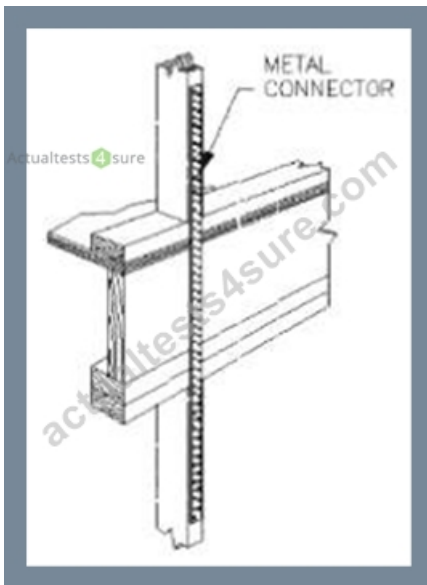
Exit sign at door #15 (A) depends on egress analysis; not a generic coordination issue.

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 # 21



Refer to the exhibit.

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

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

Answer: A

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 # 22

In the design of a barrier-free access route, door locksets should be equipped with which one of the following?

- A. Lever handles
- B. Panic devices
- C. Knurled knobs
- D. Grip handles with thumbpieces

Answer: A

Explanation:

For barrier-free (ADA) accessible routes, operable parts such as door hardware must be usable with one hand and not require tight grasping, pinching, or twisting of the wrist (2010 ADA Standards §404.2.7). Lever handles meet this requirement because they can be operated by users with limited grip strength or dexterity.

A). Grip handles with thumbpieces - Often require pinching or twisting; not compliant for barrier-free.

B). Knurled knobs - Non-compliant because they require twisting and strong grip; also typically used for hazardous rooms as a tactile warning.

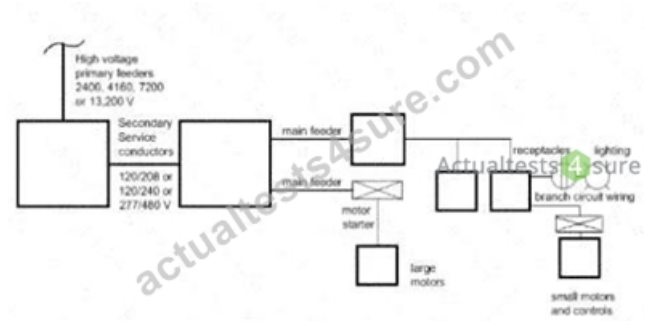
D). Panic devices - Allowed in certain egress conditions but not the universal ADA hardware requirement for standard accessible

doors.

PDD Reference: ARE 5.0 Handbook, PDD "Codes and Regulations-Accessibility," 2010 ADA Standards §404.2.7, ICC A117.1 Accessibility Standard.

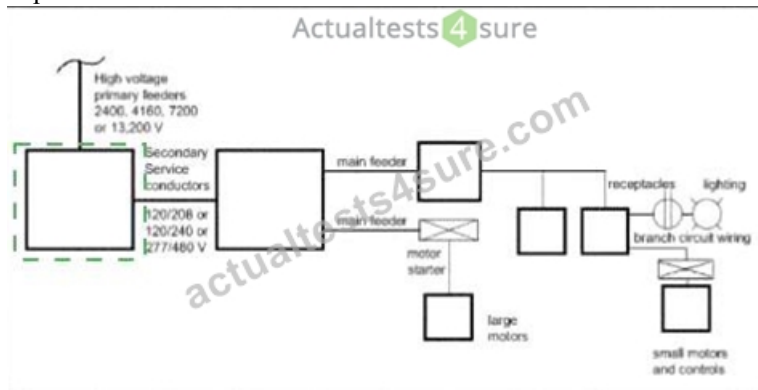
NEW QUESTION # 23

The single-line diagram for the electrical distribution system shown is for a multi-family project. Click in the box on the single-line diagram where the transformer is located.

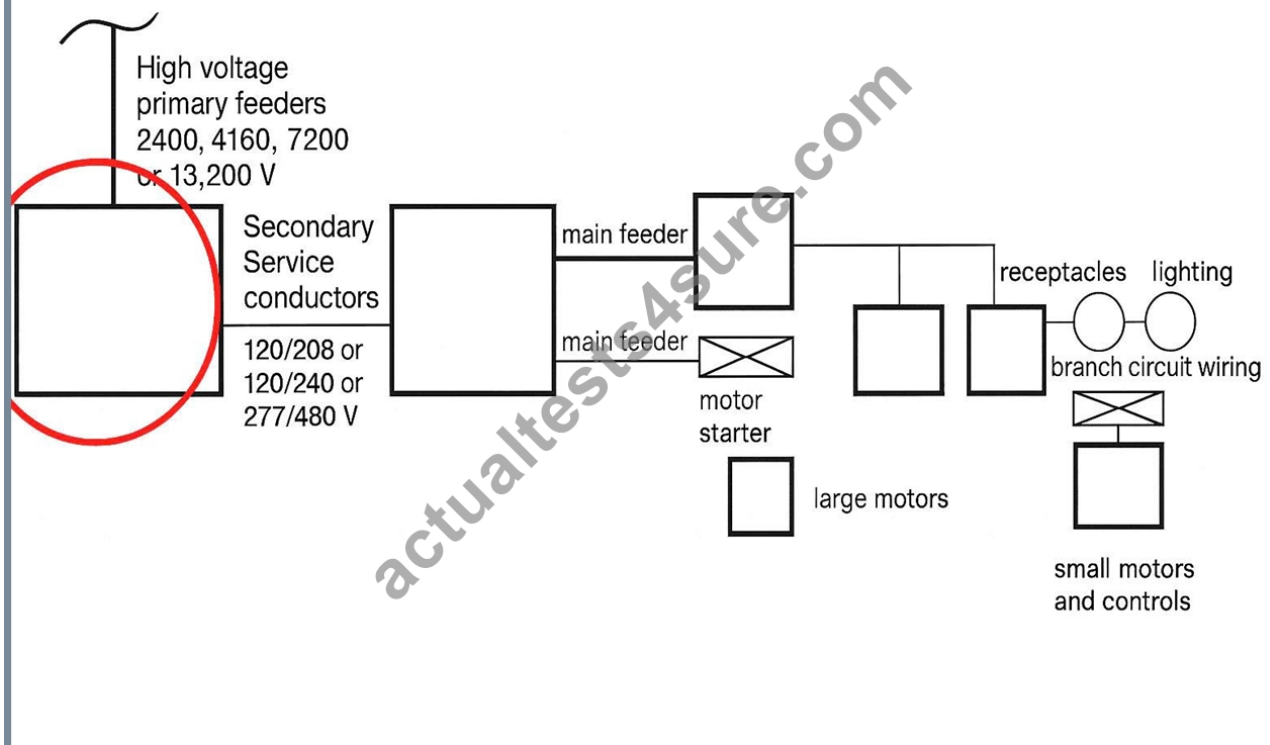


Answer:

Explanation:



Explanation:



The transformer is located in the first large box after the high-voltage primary feeders and before the secondary service conductors on the left side of the diagram.

Step-by-Step Reasoning

1. Understanding the diagram flow:

- * The leftmost symbol represents high-voltage primary feeders from the utility (2,400V, 4,160V, 7,200 V, or 13,200V).
- * Immediately after that, there is a large box labeled "Secondary Service conductors" with standard building service voltages (120/208, 120/240, 277/480 V).
- * To get from primary (medium/high) voltage to these usable secondary voltages, you must step down the voltage - and that is done by a transformer.

2. Transformer location in electrical distribution:

- * Transformers are always placed between the incoming primary service and the secondary distribution system in building diagrams.
- * In this drawing, the transformer is symbolized by the first large square/rectangular box after the high- voltage primary feeders.

3. Why not any other box?

- * The following boxes and lines after this first step are feeders, panels, and motor starters - they operate at secondary voltage.
- * Only the transformer connects the utility high-voltage system to the building's lower-voltage system.

NCARB ARE 5.0 PDD References:

- * Content Area: Electrical Systems - Service Entrance and Distribution
- * Source References:
- * MEEB (Mechanical and Electrical Equipment for Buildings) - Chapter on Transformers & Electrical Service
- * NEC (National Electrical Code) Article 450 - Transformer Installation and Use
- * Architectural Graphic Standards - Single-Line Diagrams for Electrical Distribution Key Point:

In building electrical distribution, the transformer is always between the high-voltage primary service and the secondary service conductors to step down voltage to a usable level for building loads.

NEW QUESTION # 24

Which of the following admixtures is used to greatly increase the slump of concrete?

- A. Superplasticizer
- B. Water-reducing agent
- C. Calcium chloride
- D. Air-entraining agent

Answer: A

Explanation:

Comprehensive Detailed Explanation with all NCARB ARE 5.0 Project Development and Documentation (PDD) Study Guide

References:

In concrete technology, admixtures are used to modify properties of fresh or hardened concrete:

Air-entraining agents: Introduce microscopic air bubbles to improve freeze-thaw resistance; they do not increase slump.

Water-reducing agents: Reduce water content while maintaining slump; increase workability but only moderately.

Calcium chloride: An accelerator, speeds up setting time; does not increase slump.

Superplasticizers (also called high-range water reducers): Significantly increase the slump (workability) of concrete without adding extra water, making the mix more flowable and easier to place.

Thus, to greatly increase slump while maintaining water-cement ratio, the superplasticizer is the correct choice.

Supporting References:

NCARB ARE 5.0 Review Manual, Materials and Assemblies section

Portland Cement Association publications on admixtures

ACI (American Concrete Institute) guidelines on admixtures

NEW QUESTION # 25

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