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Exam RVT_ELEC_01101 Quizzes, Reliable RVT_ELEC_01101 Test Review

Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q45-Q50):

NEW QUESTION # 45
Refer to exhibit.

A family in a project contains the following types:
The following edits are made in the Family Editor and loaded into the project:
1. The type Plain is renamed to Standard
2 A new type is added named GFCI
Which types does this family now have in the project?
1. The type Plain is renamed to Standard

- A. Above Counter. Standard
- B. Above Counter. Plain. Standard
- C. Above Counter. GFCI. Standard
- D. Above Counter. GFCI. Plain. Standard

Answer: C

Explanation:
In Revit, when editing a family in the Family Editor and reloading it into a project, Revit handles type changes using specific update rules. Types that are renamed overwrite their earlier version in the project because they retain the same internal type ID. Types that are added to the family also appear in the project once reloaded.
Initially, the family contains two types:
Above Counter
Plain
The changes made in the Family Editor are:
Rename Plain → Standard
Add a new type named GFCI
According to documented Revit behavior for type updates:
"When a family is reloaded into the project, any renamed family type replaces its previous version while maintaining its parameter assignments. Newly created types are added as additional family types available for placement within the project." Therefore:
Plain no longer exists because it was renamed
Standard now exists in its place
GFCI is added as a new family type
Above Counter remains unchanged
Thus, the family in the project now contains:
☐ Above Counter
☐ GFCI
☐ Standard
This matches answer choice:
B). Above Counter, GFCI, Standard

NEW QUESTION # 46
Refer to exhibit.

An electrical designer is placing electrical equipment. When the electrical designer selects a component in the contextual ribbon, the Placement panel appears in the contextual ribbon.

Which condition does this Placement panel indicate?

- A. The component was created using a wall-based template
- B. The component was created using a lace-based template.
- C. The component was created using a floor-based template.
- D. The component is set to use the Always Vertical option

Answer: A

Explanation:
The Placement panel shown in the exhibit - with options such as Place on Vertical Face, Place on Face, and Place on Work Plane - is displayed only when the family being placed was created using a wall-hosted (face-based or vertical face-based) template. This indicates that the family is designed to be hosted on a vertical surface, such as a wall, rather than a floor or level.
According to the Autodesk Revit MEP User's Guide (Chapter 44 "Creating and Modifying Families"):
"When placing a hosted family, the placement options depend on the family's host type.
Wall-based families display the Place on Vertical Face option.
Ceiling-based families display Place on Face or Place on Work Plane.
Floor-based families display Place on Work Plane only."
The "Place on Vertical Face" option specifically appears for wall-hosted or face-based components because it allows the user to select a vertical plane, typically representing a wall surface. This confirms that the family template used during creation was Wall-based (commonly "Electrical Equipment - Wall Based.rft" or "Generic Model - Wall Based.rft").
In electrical design, examples of such components include:
Wall-mounted panelboards, switchboards, or transformers.
Receptacles or lighting control devices hosted on walls.
The Smithsonian Facilities Revit Template Guide reinforces this explanation:
"Wall-based components, such as surface-mounted panels, display the Place on Vertical Face option. This confirms the family is wall-hosted and cannot be placed freely on floors or reference planes." Why the Other Options Are Incorrect:
A . Face-based template: Would show "Place on Face" (not necessarily limited to vertical).
C . Floor-based template: Displays "Place on Work Plane" only.
D . Always Vertical option: Controls orientation (rotation relative to surface), not placement host type.
Therefore, the Placement panel confirms the component was created using a wall-based family template, allowing it to be attached only to vertical surfaces.
References:
Autodesk Revit MEP User's Guide - Chapter 44 "Creating and Modifying Families," pp. 1028-1032 Smithsonian Facilities Revit Template User's Guide - Section 7.4 "Family Hosting and Placement Behavior," pp. 72-74 Autodesk Revit Electrical Design Essentials - "Wall-Based Equipment and Hosting Parameters in Family Creation"

NEW QUESTION # 47
An electrical designer has created a family and loaded It Into the project. The designer wants to connect the family to a power circuit but the Power icon is not available when the family Is selected.
How should the designer fix the problem?

- A. Set the family parameter to Shared.
- B. Change the Voltage parameter value to non-zero.
- C. Add an electrical connector to the family.
- D. Set the distribution system for the family.

Answer: C

Explanation:
In Revit Electrical Design, for a loadable family (such as electrical equipment, lighting fixtures, or devices) to connect to a power circuit, it must include an electrical connector defined in the Family Editor.

According to the Autodesk Revit MEP User's Guide (Chapter 17 - Electrical Systems):

"For an electrical family to participate in a circuit, the family must contain an electrical connector. The connector defines the relationship between the component and the electrical system. Without a connector, Revit cannot establish a power connection, and the Power tool will not be available."

- Revit MEP User's Guide, Electrical Systems - Creating Electrical Families The connector type determines what kind of system (Power, Data, Communication, etc.) the family can join. When the electrical connector is not added, Revit cannot recognize the family as part of an electrical system, and thus the Power icon is grayed out or unavailable.

Incorrect Options:

A . Set the distribution system for the family - only available after a connector is added.

B . Set the family parameter to Shared - allows tagging or scheduling across projects but does not affect connectivity.

C . Change the Voltage parameter value - affects circuit data but not connection availability.

Therefore, the issue is resolved only by adding an electrical connector in the Family Editor.

Verified References:

Autodesk Revit MEP User's Guide (2011) - Electrical Systems → Creating Electrical Families → Adding Connectors Revit Electrical Design Fundamentals Workbook - "Electrical connectors define the interface between components and electrical systems."

NEW QUESTION # 48

Refer to exhibit.
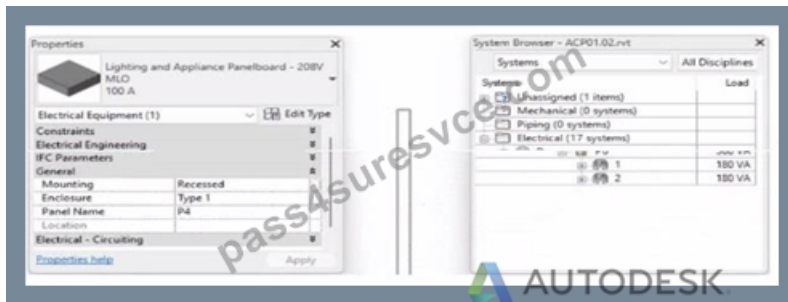
To which panel Is Panel P4 circuited?

- A. Panel P 5
- B. Panel P 2
- C. Panel P 3
- D. Panel P 1

Answer: B

Explanation:

In Autodesk Revit MEP Electrical Design, the System Browser is used to analyze and verify electrical systems, including panelboard connections, circuit hierarchies, and connected loads.

From the exhibit, the Properties palette shows that the selected equipment is a Lighting and Appliance Panelboard (208V MLO, 100A), named P4. To determine the parent panel that feeds Panel P4, we refer to the System Browser, which organizes the entire electrical distribution network hierarchically under the Electrical discipline.

In the System Browser on the right, under the Electrical category, we can observe that Panel P4 is nested directly under Panel P2. This organization indicates that P4 is circuited to (or fed from) Panel P2.

According to the Revit MEP 2011 User's Guide, Chapter 4, "Electrical Systems-Using the System Browser," it states:

"The System Browser displays electrical systems in a tree structure. Each subpanel or device listed beneath a main panel is connected to that panel through an electrical circuit. When a panelboard appears under another, it indicates the subpanel is fed from that parent panel." This is further reinforced in Smithsonian Facilities Revit Electrical Template Documentation (April 2021), Section 8.3 "Documentation Views," which describes:

"Panel schedules and browser hierarchies show the distribution sequence. Subpanels appear indented beneath their source panel, indicating electrical dependency and circuit assignment." Therefore, by interpreting both the Revit interface and Autodesk's documentation, Panel P4 is a subpanel connected to Panel P2, confirming that its electrical feed is assigned from Panel P2.
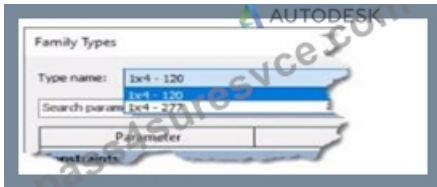
Final Verified answer: B. Panel P2

Reference Sources:

Autodesk Revit MEP 2011 User's Guide, Chapter 4 - Electrical Systems and the System Browser Smithsonian Facilities Revit Template User's Guide, Section 8.3 - Electrical and Fire Alarm Templates: Documentation Views

NEW QUESTION # 49

Refer to exhibits.

(The image Is presented in Imperial units: 1 In = 25 mm (Metric units rounded].) An electrical designer creates a lighting fixture family with the following types and then saves the family.

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

Answer: B

Explanation:
In Autodesk Revit, each type within a family represents a unique combination of parameters such as size, voltage, photometric properties, and construction configuration. When a family is created in the Family Editor, the designer can define multiple Family Types using the Family Types dialog. This interface allows the user to duplicate, rename, or modify type parameters before loading the family into a project.
In the exhibit, the Type Name dropdown list clearly shows two available lighting fixture types:
1x4 - 120
1x4 - 277
These two types appear to represent different voltage configurations of the same 1x4 light fixture format. Since these are the only types visible in the Family Types selection preview, the correct number of family types saved within the family file is two.
Revit's behavior aligns with standard family management described in documentation, which explains that every defined type is listed in the Family Types browser. When a designer saves a family, all defined types are stored and become available for placement in the project environment. Devices can then be selected based on parameters such as voltage or photometric values, which are often driven by electrical design requirements.
The Revit MEP User's Guide explains how type properties and family types are controlled:
"Selection of named items or elements [such as Family Types] are managed through the Properties and Family Types dialogs, allowing multiple variations to exist within a single family."

NEW QUESTION # 50
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