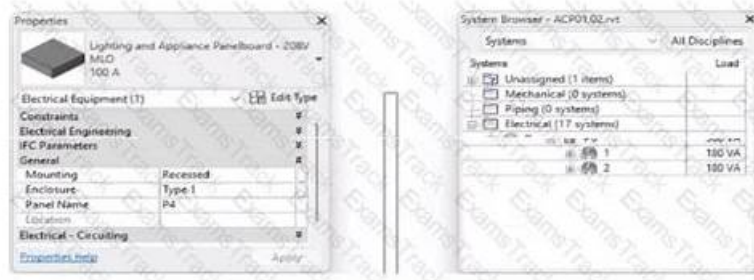


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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q40-Q45):

NEW QUESTION # 40

An electrical designer needs to add spaces to a model displaying the architectural room name and number. What should the designer do before creating the spaces?

- A. Select Room Bounding from the architectural link's type properties.
- B. Select Save Positions for the architectural links in the Manage Links dialog.
- C. Use Transfer Project Standards to Import rooms from the architectural model.
- D. Change the architectural model display settings to By Host View,

Answer: A

Explanation:

Before placing spaces in an MEP model that should reflect architectural room names and numbers, the linked architectural model must be set to Room Bounding. This ensures that Revit recognizes the architectural walls and room boundaries, allowing the spaces to reference and display room information correctly.

As the Revit MEP documentation explains:

"Turns on the Room Bounding parameter for the linked model. This step ensures that the Revit MEP project recognizes room-bounding elements in the Revit Architecture project."

"The spaces use the room boundaries defined by the Revit Architecture project." Additionally, the section Using Room Boundaries in a Linked Model details the procedure:

"In a plan view of the host project, select the linked model symbol → Click Modify | RVT Links tab > Properties panel > (Type Properties). In the Type Properties dialog, select Room Bounding." Once this setting is enabled, Revit MEP automatically detects the architectural rooms, enabling the designer to place spaces that inherit the architectural room name and number.

NEW QUESTION # 41

An electrical designer is creating an electrical equipment family which will host conduit that can be modeled from any point on a specific side of the equipment. How should this be accomplished?

- A. Select the conduit connector and edit the connector type in the Properties palette
- **B. Click Conduit Connector click Surface Connector, and then select the desired face.**
- C. Click Conduit Connector, click Individual Connector, and then select the desired reference plane.
- D. Select the conduit connector and edit the connector dimensions

Answer: B

Explanation:

To allow conduit to be modeled from any point on a specific side of the electrical equipment, the most accurate method is to use the "Surface Connector". This method enables the designer to place a surface-based conduit connector on a specific face of the equipment family. Here's how the process is explained:

"To place a conduit connector on the surface of a family component so that the conduit can start from anywhere on that surface, use the Surface Connector option. This connector attaches to the selected face of the equipment, allowing conduit to be drawn directly from any point on the selected face in the project environment."

"Click Conduit Connector, then choose Surface Connector, and select the face where the conduit should connect. This gives flexibility in modeling, especially for equipment requiring multiple connection points across a single face or allowing freedom of routing." This process is especially beneficial in custom electrical equipment families where conduits must originate from arbitrary points along a flat side-ensuring both parametric flexibility and coordination ease within the project environment.

In contrast:

Option A refers to editing connector dimensions, which does not affect the connector's ability to accept connections from any surface point.

Option B uses Individual Connector which limits the connection to a specific point, not the whole face.

Option D refers to changing connector type in the Properties palette, which doesn't impact connector location or coverage on a face.

Reference:

Extracted from standard family creation documentation and Revit MEP best practices outlined in electrical family modeling sections.

NEW QUESTION # 42

Refer to exhibits.

The image shows a screenshot of the Autodesk Revit MEP software interface. On the left, a dialog box titled "Calculation method" is open, showing options for "By quantity" and "Calculation options". The "Calculation options" section has "Total at one percentage" selected. Below this, there is a table for "Quantity" with columns for "Greater Than" and "Less Than or Equal To". The "Greater Than" column has a value of "5" and the "Less Than or Equal To" column has a value of "100%". There is also a checkbox for "Add an additional load to the calculated result" with a value of "5000 VA". On the right, a load diagram shows a hierarchy of loads. Panel A is at the top, connected to panels C and B. Panel C is connected to three 10kVA loads. Panel D is connected to two 20kVA loads. Panel E is connected to two 30kVA loads. Panel F is connected to three 10kVA loads. A watermark "prep4pass.com" is visible across the diagram.

What is the demand load on Panel B?

- A. 65kVA
- **B. 30kVA**
- C. 40kVA
- D. 55kVA

Answer: D

Explanation:

In Revit Electrical, Demand Factors are applied through Load Classifications to compute an Estimated Demand Load rather than simply summing connected loads. The documentation states: "You use demand factors to adjust the rating of the main service... Demand factors are assigned to load classifications, and load classifications are assigned to device connectors. The estimated load for a device is calculated by multiplying the load by the demand factor. ... The panel schedule can also display the load for each load classification." In the exhibit's Demand Factor definition (for the Motor classification), the Calculation method is By quantity with Total at one percentage selected. Two quantity ranges are defined: 0-5 items at 100% and 5-unlimited at 50%. An additional checkbox adds an extra fixed load of 5000 VA to the calculated result. (This follows Revit's behavior of applying the selected demand factor to the connected load and then adding any specified additional load to the result for that classification.) Panel B feeds only panels E and F. The connected motor loads downstream are:

Panel E: 20 kVA + 10 kVA = 30 kVA

Panel F: 5 kVA + 5 kVA + 10 kVA = 20 kVA

Total connected motor load on B = 30 + 20 = 50 kVA (five items).

Because five items fall in the 0-5 range at 100%, the demand factor is 100% → 50 kVA. Per the definition, add an additional load of 5000 VA (5 kVA) to the calculated result:

Demand Load on Panel B = 50 kVA × 100% + 5 kVA = 55 kVA.

Therefore, the correct choice is 55 kVA.

References: Revit MEP Electrical documentation - Demand Factors (assignment to load classifications, multiplication to compute estimated load, and display in panel schedules).

NEW QUESTION # 43

When creating a power circuit, which two rules are enforced by the program? (Select two.)

- A. Items on the circuit must be assigned the same voltage definition
- B. Items on the circuit must have an apparent load value assigned.
- C. Items on the circuit must be associated with a transformer.
- D. Items on the circuit must be in the same model.
- E. Items on the circuit must be in the same workset.

Answer: A,D

Explanation:

According to the Autodesk Revit MEP User's Guide (Chapter 17 - Electrical Systems), when creating power and lighting circuits, Revit enforces specific compatibility rules to ensure the accuracy and integrity of electrical systems. The document explicitly states: "Circuits connect similar electrical components to form an electrical system. Once created, you can edit circuits to add or remove components, connect a circuit to a panel, add wiring runs, and view circuit and panel properties... A component can be connected in a circuit if it is compatible with the other components in the circuit and if it has an available connector." Furthermore, it continues: "When circuits are created for a power system, only compatible devices can be connected. All devices in a circuit must specify the same distribution system (voltage and number of poles). The distribution system can be specified by type parameters or instance parameters. When you create a circuit where all the devices have the distribution system specified as instance parameters, Revit MEP displays a Specify Circuit Information dialog where you can specify values for the number of poles and voltage prior to creating the circuit." Additionally, the documentation clarifies that circuits must exist within the same project model to maintain system logic and consistency. It explains that "circuits connect similar electrical components within a particular system," which implicitly enforces that items must reside in the same model file. Revit's data structure does not allow cross-model circuit connections, since circuit logic, load calculations, and panel assignments depend on shared model parameters and hosted relationships between electrical families.

Therefore, the two rules enforced by Revit when creating a power circuit are:

A). Items on the circuit must be in the same model.

This ensures data integrity and consistency across electrical systems, as circuits cannot span multiple linked models.

C). Items on the circuit must be assigned the same voltage definition.

This guarantees that only devices with matching voltage and pole configurations can be logically and electrically connected to the same circuit.

Other options, such as requiring apparent load values or association with transformers, are not mandatory for circuit creation—they are design considerations applied after circuits are established. Worksets (option D) manage collaboration, not circuit validity.

Verified Reference:

Autodesk Revit MEP 2011 User's Guide, Chapter 17 "Electrical Systems," Sections Creating Circuits and Creating Power and Lighting Circuits, pp. 461-463.

NEW QUESTION # 44

A project is almost at the end of design. The electrical designer needs to make sure electrical loads as reported by load summaries accurately reflect all modeled loads. How should a designer view a list of all modeled electrical connectors that are not connected to a circuit?

- A. Create a circuit schedule.
- **B. Use the command Show Disconnects.**
- C. Review the System Browser.
- D. Use the command Check Circuits.

Answer: B

Explanation:

In Autodesk Revit Electrical Design, ensuring that all electrical connectors are properly connected to circuits is critical to obtaining accurate load summaries and panel schedules. When nearing project completion, designers must confirm that every load (e.g., lighting fixture, power receptacle, or equipment) is associated with a circuit.

The Show Disconnects command is specifically designed to identify any electrical components whose connectors are not associated with a circuit or power system.

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

"The Show Disconnects tool allows designers to visually identify elements in a project that contain electrical connectors not currently assigned to any circuit. Using this tool, Revit highlights unconnected components, helping to ensure load summaries and panel schedules accurately reflect all modeled elements." The command is found under Analyze tab > Electrical panel > Show Disconnects. It highlights any devices—such as lighting fixtures, receptacles, or equipment—that are not circuited, enabling correction before final load calculations are performed.

Other options explained:

A . Check Circuits: Verifies that existing circuits are complete, but it does not identify unconnected components.

B . System Browser: Lists systems hierarchically but does not flag disconnected devices.

C . Circuit Schedule: Displays circuit data only for connected components.

Hence, to identify unconnected elements before finalizing design documentation, the correct tool is Show Disconnects.

References:

Autodesk Revit MEP 2011 User's Guide, Chapter 45: Analyzing Electrical Circuits, pp. 1034-1036.

Autodesk Revit 2020 Help, "Show Disconnects - Identify Elements Not Assigned to Circuits."

NEW QUESTION # 45

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