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Review

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q51-Q56):

NEW QUESTION # 51
Refer to exhibit.

An electrical designer wants to report Breaker Type for each breaker in a panel schedule. The designer adds a column to the schedule as shown (and highlighted) in the image.
Which type of parameter should the designer create to add to the column?

- A. A Shored Parameter in the Electrical Equipment families.
- B. A Project Parameter assigned to Electrical Equipment.
- C. A Project Parameter assigned to Electrical Circuits.
- D. A Shared Parameter in the Electrical Fixture families.

Answer: C

Explanation:
In Autodesk Revit Electrical Design, panel schedules display data that originates from the Electrical Circuits category, not directly from the Electrical Equipment or Electrical Fixtures families. Each circuit in a panel schedule represents an instance of an Electrical Circuit object within Revit's system-based MEP structure. Therefore, to add an additional field like Breaker Type, the parameter must be created and assigned specifically to the Electrical Circuits category.
According to the Revit MEP User's Guide - Chapter 50 "Electrical Systems and Panel Schedules":
"Panel schedules display parameters that are associated with electrical circuits, including load names, rating, poles, and breaker information. To include additional circuit information in a panel schedule, create a Project Parameter assigned to the Electrical Circuits category." This means the designer should:
Open Manage → Project Parameters Add
Create a Project Parameter named Breaker Type
Assign it to the Electrical Circuits category
Set it to appear in schedules and tags, ensuring it becomes available for use in the panel schedule template As noted in the Smithsonian Facilities Revit Template User's Guide:
"Custom circuit data fields such as 'Breaker Type' or 'Wire Tag' are defined as project parameters applied to the Electrical Circuits category so they can be displayed in panel schedule templates." Incorrect options:
A . Shared Parameter in Electrical Equipment - Electrical Equipment holds overall panel data (e.g., Mains Rating, Voltage) but not per-circuit data.
B . Shared Parameter in Electrical Fixture families - Fixtures are individual load devices, not part of the circuit's breaker assignment.
D . Project Parameter assigned to Electrical Equipment - would apply to the panelboard as a whole, not to individual breakers in circuits.
Thus, the correct answer is C. Project Parameter assigned to Electrical Circuits, ensuring each breaker in the panel schedule can display its type individually and dynamically.

References:
Autodesk Revit MEP User's Guide - Chapter 50 "Electrical Systems and Panel Schedules," pp. 1134-1142 Smithsonian Facilities Revit Template User's Guide - Section 8.7 "Electrical Panel Schedule Customization," p. 91 Autodesk Revit Electrical Design Essentials - "Custom Circuit Parameters and Schedule Configuration"

NEW QUESTION # 52

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

- A. Items on the circuit must be in the same workset.
- B. Items on the circuit must be assigned the same voltage definition
- 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 have an apparent load value assigned.

Answer: B,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 # 53

An electrical designer is working on a project with multiple buildings. The designer wants to organize the Project Browser by building For example, all views related to Building A will be sorted under Building A. and all views related to Building B will be sorted under Building B.
The designer decides to create a new parameter, assign it to views, and then sort the Project Browser according to the new parameter.
Which parameter should the designer use?

- A. A project parameter
- B. A global parameter
- C. A family parameter
- D. A reporting parameter

Answer: A

Explanation:

In Autodesk Revit, Project Parameters are used to add custom fields that apply to multiple elements within a specific project file - such as views, sheets, or schedules. These parameters allow project teams to categorize, group, and sort information within the Project Browser or within schedules without editing families or external files.

As defined in the Revit MEP User's Guide and Revit Structure Parameters Chapter:

"Project parameters are specific to a single project file. Information stored in project parameters cannot be shared with other projects. A project parameter can be used, for example, to categorize views within a project." This statement directly confirms that project parameters are the correct tool for sorting or grouping views in the Project Browser.

To organize elements (like views or sheets) by building, the designer can create a custom project parameter named "Building" and assign it to the View category. Once assigned, the parameter values (e.g., "Building A" or "Building B") can be filled in for each view. The Smithsonian Facilities Revit Template Guide further supports this:

"View purpose is a Revit project parameter, providing a means for users to organize the many views that may exist in a BIM." Thus, using a project parameter allows users to add a "Building" field to each view, enabling customized browser organization (e.g., group views by Building A, Building B, etc.) without requiring shared parameters or family editing.
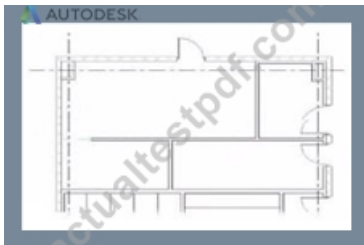
References:

Revit MEP User's Guide - Chapter "Parameters" p. 1541-1543

Smithsonian Facilities Revit Template User's Guide - Section 2.8.1 "View Types and View Templates," p. 29 Autodesk Revit Electrical Design Essentials - Parameter Management Section

NEW QUESTION # 54

Refer to exhibit.

In this linked architectural model, demolished walls are missing The electrical designer teams from the architect that the walls have been placed in a phase that does not exist in the host model.

Which steps should the designer lake to associate the architectural phases to their phases?

- A. Select Phases > Graphic Overrides
- B. Open Manage Links > Manage Phases
- C. Select the link > Edit Type > Phase Mapping
- D. Open Visibility Graphics > Revit Links > Display Settings

Answer: C

Explanation:

In Autodesk Revit, when demolished walls or other elements from a linked architectural model are missing in the host model, the issue typically lies in phase inconsistency between the host and linked models. The architectural model may include elements created or demolished in phases that do not exist or are mismatched in the electrical model (the host). To resolve this, Revit allows users to map phases between the host and linked models through the Phase Mapping tool in the link's Type Properties dialog.

According to the Autodesk Revit MEP Electrical Design Guide (Linked Models Section, pp. 1282-1287), the official procedure is:

"You can manually set up a correspondence between phases in the host model and phases in the linked model. To do this, you set up a phase map in the properties of the linked model, and then apply the phase map in the host model." (Revit MEP User's Guide, Chapter 53 - Linked Models, p. 1282) The step-by-step process is precisely described in the Revit documentation as follows:

To map phases in the linked model:

In the drawing area of the host model, select the linked Revit model.

Click Modify | RVT Links tab ➤ Properties panel ➤ Type Properties.

In the Type Properties dialog, find the Phase Mapping parameter and click Edit.

In the Phases dialog, select the appropriate mapping options for each phase, and click OK.

Click OK to exit the Type Properties dialog.

(Revit MEP User's Guide, p. 1287)

This procedure ensures that demolished or existing architectural elements display correctly according to the electrical model's phase structure. Without this mapping, Revit cannot interpret which linked phase corresponds to the host's "Existing" or "New Construction" phases, causing certain geometry-like demolished walls-to disappear from view.

Supporting Extracts from Revit for Electrical Design Study Documentation:

Linked Model Type Properties:

"To modify the type properties of a linked model, select the linked model in the drawing area, and click Modify | RVT Links tab ➤ Properties panel ➤ (Type Properties).
The Phase Mapping parameter allows you to set up a correspondence between phases in the host model and phases in the linked model." (Revit MEP 2011 User's Guide, p. 1305) Phases and Linked Models Concept:
"When you link a Revit model that has more than one phase, phases in the host model automatically map to phases in the linked model. When this initial mapping occurs, Revit maps phases by matching phase names.
You can manually set up a correspondence between phases in the host model and phases in the linked model using the Phase Mapping function." (Revit MEP 2011 User's Guide, p. 1282) Phase-Specific Room and Element Display:
"If phase-specific elements in a linked model do not reflect correctly, check phase mapping for the linked model. If automatic mapping does not give the desired result, map phases manually between projects." (Revit MEP 2011 User's Guide, p. 710)
Conclusion:
Therefore, to fix the issue where demolished walls are missing in a linked architectural model, the electrical designer must perform manual phase mapping between the architectural model and the host electrical model. This is done by selecting the linked file, opening its Type Properties, and editing the Phase Mapping parameter.

NEW QUESTION # 55
Refer to exhibit.
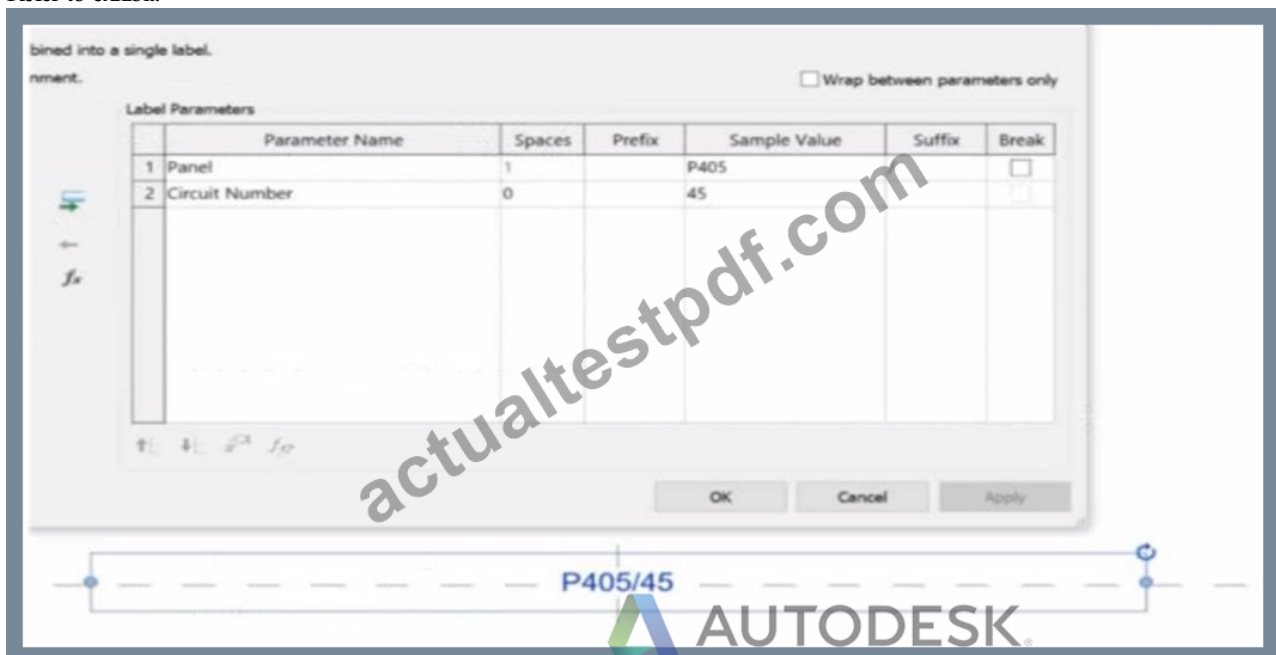
An electrical designer is working on an Electrical Device Panel-Circuit tag. The designer tags a receptacle using the tag properties shown in the exhibit The receptacle is assigned to panel P203 and circuit 2.4.
Which option shows the correct tag?

- A.

- B.

- C.

- D.

Answer: D

Explanation:
In the exhibit, the Label Parameters for the electrical device tag are configured as follows:

Parameter	Spaces	Prefix	Sample Value	Suffix	Break
Panel	1	(blank)	P405	/	(unchecked)
Circuit Number	0	(blank)	45	(blank)	(unchecked)

This setup determines how the tag will display in Revit when applied to any device. Specifically:
The Panel parameter (P203 in this case) will be shown first.
A "/" separator follows because it's assigned as the suffix for the Panel parameter.
The Circuit Number (2,4) is displayed immediately after the slash, with no extra spaces or line breaks.
Since the Break column is unchecked, the values will appear on one continuous line, not split across lines.
Revit documentation for tag creation confirms this behavior:
"When defining label parameters in a tag family, the Prefix and Suffix fields control text that appears before or after the parameter value, while the Break checkbox controls whether the text wraps to a new line." Therefore, when the tag is applied to a receptacle on panel P203 and circuit 2,4, the final formatted text will be:
P203/2,4
This corresponds exactly to option B, where the panel and circuit appear on the same line separated by a slash, with no spaces or line breaks.

NEW QUESTION # 56
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