

Exam RVT_ELEC_01101 Experience - Free RVT_ELEC_01101 Practice



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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Documentation: This section of the exam measures the skills of Revit Technicians and covers manipulating views, templates, and schedules to produce accurate documentation. It includes managing panel schedules, creating various view types such as legends, callouts, and 3D views, and applying phasing and revision management. Candidates are also tested on annotation tools, including tags, keynotes, and note blocks, to ensure clarity and consistency in project documentation.
Topic 2	<ul style="list-style-type: none"> Families: This section of the exam measures the skills of BIM Modelers and focuses on creating and editing Revit families. It includes defining MEP connectors, understanding system and component family types, configuring family categories, and setting up light sources. The section also assesses parameter creation, annotation family setup, and controlling element visibility to ensure effective customization and reuse across electrical projects.
Topic 3	<ul style="list-style-type: none"> Modeling: This section of the exam measures the skills of Electrical Designers and covers creating and managing electrical elements within Revit. It includes adding electrical equipment such as panelboards and transformers, configuring circuits and low-voltage systems, and using the System Browser for navigation. Candidates must also demonstrate the ability to model connecting geometry, including conduits, cable trays, and wiring, with appropriate settings and fittings.
Topic 4	<ul style="list-style-type: none"> Analysis: This section of the exam measures the skills of Electrical Engineers and focuses on performing analytical tasks in Revit. It includes conducting load calculations, conceptual lighting analysis, and configuring electrical settings for load classifications and demand factors. Candidates must show the ability to use Revit's analysis tools to ensure proper electrical design performance and energy efficiency.
Topic 5	<ul style="list-style-type: none"> Collaboration: This section of the exam measures the skills of Project Coordinators and covers collaboration workflows in Revit. It includes working with imported and linked files, managing worksharing concepts, and using interference checks. Candidates are also evaluated on data coordination through copy monitor tools, exporting to different formats, managing design options, and transferring project standards to ensure effective teamwork in shared environments.

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q16-Q21):

NEW QUESTION # 16

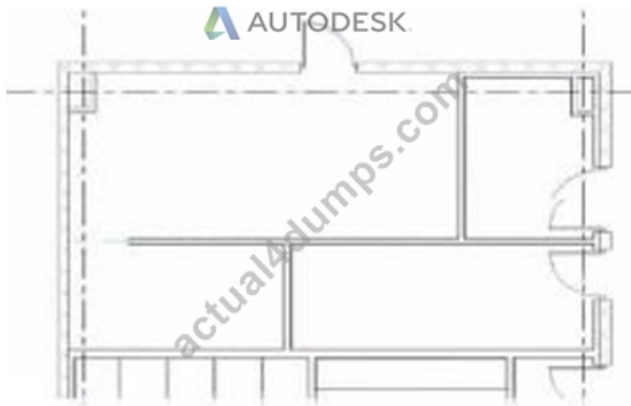
An electrical designer has created a family and loaded it into the project. The designer wants to connect the family to a power circuit but the Power icon is not available when the family is selected. How should the designer fix the problem?

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

Answer: D

NEW QUESTION # 17

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 take to associate the architectural phases to their phases?

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

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:

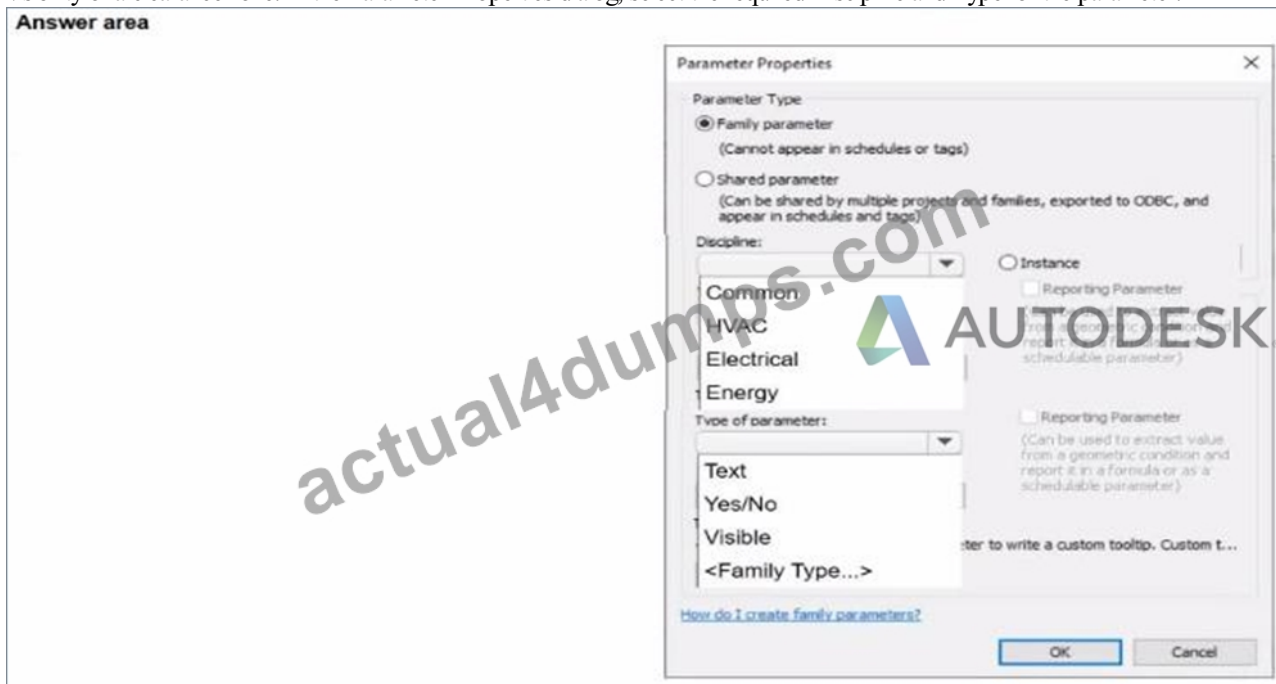
"If phase-specific elements in a linked model do not reflect correctly, check phase mapping for the linked model. If automatic mapping does not give the desired result, map phases manually between projects." (Revit MEP 2011 User's Guide, p. 710)

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 # 18

An electrical designer is creating a panelboard family. The electrical designer wants to create a family parameter to control the visibility of a clearance zone. In the Parameter Properties dialog, select the required Discipline and Type for the parameter.



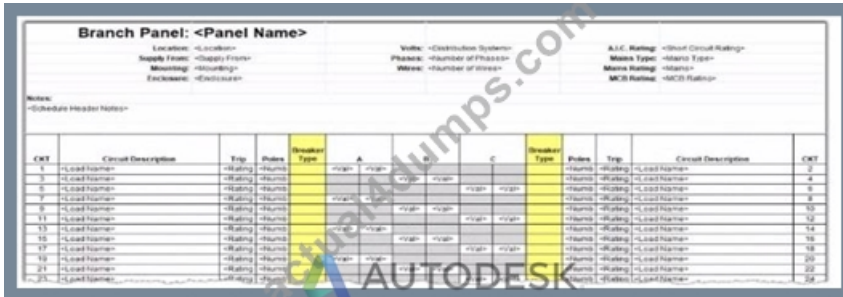
Answer:

Explanation:



NEW QUESTION # 19

Refer to exhibit.



Ckt	Circuit Description	Poles	Breaker Type	A	C	Breaker Type	Poles	Circuit Description	Ckt
1	Load Name	4	Breaker Type			Breaker Type	4	Load Name	2
3	Load Name	4	Breaker Type			Breaker Type	4	Load Name	4
5	Load Name	4	Breaker Type			Breaker Type	4	Load Name	6
7	Load Name	4	Breaker Type			Breaker Type	4	Load Name	8
9	Load Name	4	Breaker Type			Breaker Type	4	Load Name	10
11	Load Name	4	Breaker Type			Breaker Type	4	Load Name	12
13	Load Name	4	Breaker Type			Breaker Type	4	Load Name	14
15	Load Name	4	Breaker Type			Breaker Type	4	Load Name	16
17	Load Name	4	Breaker Type			Breaker Type	4	Load Name	18
19	Load Name	4	Breaker Type			Breaker Type	4	Load Name	20
21	Load Name	4	Breaker Type			Breaker Type	4	Load Name	22
23	Load Name	4	Breaker Type			Breaker Type	4	Load Name	24

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

Answer: D

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 # 20

How can an electrical designer see changes from other users without saving their own work to the central model?

- A. Worksharing Display
- B. Relinquish All Mine
- C. Manage Worksets
- **D. Reload Latest**

Answer: D

Explanation:

In Autodesk Revit, particularly for electrical and MEP design disciplines using a workshared model, the command "Reload Latest" allows a designer to see changes made by other users without saving or publishing their own work to the central model. This tool ensures that while the designer continues to work locally, their environment stays updated with the latest modifications made by colleagues.

According to the Autodesk Revit MEP User Guide (Chapter 54 - Working in a Team), under the section Loading Updates from the Central Model, it states:

"As you work, you can see the changes other team members have made to the project after they have been synchronized with the central model. You can load updates from the central model without publishing your changes to the central model.

In your local file, click Collaborate tab > Synchronize panel > (Reload Latest)." This confirms that the Reload Latest command refreshes your local file with any modifications from the central file that others have synchronized, but it does not send your local changes back. It is a critical feature for coordination in a team environment, especially when multiple designers-such as electrical, mechanical, and structural engineers-are contributing simultaneously to a shared BIM model.

By contrast:

A . Relinquish All Mine only releases ownership of elements but doesn't update the local model.

C . Manage Worksets is for controlling visibility and editability of worksets.

D . Worksharing Display visually identifies ownership and status but doesn't refresh model data.

Therefore, when an electrical designer needs to review updates from others (for example, when a lighting layout needs coordination with architectural ceiling adjustments), the proper workflow is to use Reload Latest, ensuring all new information from the central model appears instantly without saving or affecting their current unsaved edits.

References:

Autodesk Revit MEP 2011 User's Guide, Chapter 54: Working in a Team, "Loading Updates from the Central Model," pp. 1332-1333.

Autodesk Revit Structure User's Guide, Chapter 49: Working in a Team, "Loading Updates from the Central Model," p. 1230.
Smithsonian Revit Template Guide (2021), Section 6.3.1 How Worksharing Works, confirming synchronization and reloading behavior for shared Revit environments.

NEW QUESTION # 21

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