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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">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 3	<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 4	<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 and paste tools, exporting to different formats, managing design options, and transferring project standards to ensure effective teamwork in shared environments.
Topic 5	<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.

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q34-Q39):

NEW QUESTION # 34

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

Answer: D

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 # 35

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

Answer: B

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 # 36

An electrical designer is creating an electrical fixture family for a receptacle. The designer nests a generic annotation family that contains the receptacle symbol and a label. What must be done in the electrical fixture family so that the label value can be changed in a project?

- A. In the Visibility Settings for the nested generic annotation, select Label.
- B. Create a label and use a formula to set it equal to the generic annotation label.
- C. Enable Shared in the generic annotation family and re-load it into the fixture family.
- D. **Associate the nested family's parameter to a parameter in the electrical fixture family.**

Answer: D

Explanation:

In Revit, when a designer nests a Generic Annotation family (such as a receptacle symbol) inside an Electrical Fixture family, and that annotation includes a label, the label value cannot be changed directly in the project unless the parameter controlling that label is properly associated (linked) to a parameter in the host (electrical fixture) family.

According to Autodesk Revit Electrical Design documentation, under "Creating Family Parameter Links", it is explicitly stated: "By linking family parameters, you can control the parameters of families nested inside host families from within a project view. You can control instance parameters or type parameters." The procedure describes the correct process to make the label value editable in a project:

"Click the button next to a parameter that is of the same type as the one you created in Step 6. For example, if you created a text parameter, you must select a text parameter here. In the dialog that displays, select the parameter you created in Step 6 to associate it with the current parameter, and click OK."

"The nested family changes according to the value you entered."

This means that the designer must associate the nested family's label parameter (usually a text parameter controlling the annotation label) to a corresponding parameter in the host electrical fixture family. Once linked, this host parameter appears in the project's Properties palette, allowing the designer to change the label value directly.

Other options-such as creating formulas, modifying visibility, or enabling "Shared"-do not make the label editable in the project unless the parameter link is established.

NEW QUESTION # 37

An electrical designer has noticed lighting fixtures present in an architectural linked model. Which tool should be used to place an instance of those fixtures in the current electrical model while maintaining the position from the architectural model?

- A. **Copy/Monitor**
- B. Reload Latest
- C. Reconcile Hosting
- D. Coordination Review

Answer: A

Explanation:

When lighting fixtures placed in an architectural linked model need to be replicated in the electrical model while maintaining their exact positions, the correct tool is Copy/Monitor.

This Revit feature allows the electrical designer to copy elements-like lighting fixtures-from a linked model into their project, while establishing a monitoring relationship between the original (architectural) and copied (electrical) instances.

From the Autodesk Revit MEP User's Guide - Chapter 55 "Multi-Discipline Coordination" (pages 1349-1357):

"Use the Copy/Monitor tool to copy MEP fixtures from an architectural model into an MEP project, and monitor them for changes." (Revit MEP User's Guide, p. 1350)

"To copy fixtures from a linked model:

Click Collaborate tab > Coordinate panel > Copy/Monitor > Select Link.

Select the linked architectural model in the drawing area.

Click Copy and select the lighting fixtures to copy.

Click Finish.

Revit MEP copies the fixtures to the current project and establishes monitoring relationships.* (Revit MEP User's Guide, p. 1356) Behavior and Benefits:

The copied lighting fixtures maintain the same location, orientation, and type mapping as in the linked model.

Any changes (move, delete, or modify) made by the architect in the linked model will trigger a coordination review in the electrical model.

This ensures accurate positioning and easy coordination between disciplines.

*When you select a copied fixture in the current project, the monitor icon displays next to the fixture, indicating that it has a

relationship with the original fixture in the linked model." (Revit MEP User's Guide, p. 1357)

"If copied fixtures are moved, changed, or deleted in the linked model, Revit MEP notifies the engineers of the changes during Coordination Review." (Revit MEP User's Guide, p. 1357)

NEW QUESTION # 38

An electrical designer wants to add a parameter to a lighting fixture schedule without editing the families. Which parameter type should the designer use?

- A. Global parameter
- B. Schedule parameter
- **C. Project parameter**
- D. Family parameter

Answer: C

Explanation:

In Revit Electrical Design workflows, when a designer wishes to add a parameter to a lighting fixture schedule without editing the families themselves, the proper approach is to use a Project Parameter.

The Revit MEP documentation clearly explains:

"To add a custom field to a schedule, you can create a custom parameter using the Parameter Properties dialog. Under Parameter Type, select Project parameter." This method links the parameter directly to the project and to all instances of the specified category (in this case, Lighting Fixtures), allowing it to appear in the schedule automatically without requiring any modification to the family files (.RFA).

In contrast:

Family Parameters apply only within the family file and are not schedulable across multiple families.

Global Parameters control dimensional or relational constraints, not schedule data.

Reporting Parameters are read-only and extract model information; they cannot be manually added to schedules.

Revit's scheduling workflow defines this process:

"On the Fields tab of the Sheet List Properties dialog, click Add Parameter... Under Parameter Type, select Project parameter."

This same mechanism applies to lighting fixture schedules, as schedules and sheet lists share parameter structures in Revit. The new project parameter can then be sorted, filtered, and displayed in the schedule view for documentation or tagging purposes.

References:

Autodesk Revit MEP User's Guide - Chapter 49 "Preparing Construction Documents," pp. 1126-1128 Autodesk Revit Parameters Overview - "Project Parameters" and "Shared Parameters," pp. 1541-1543 Autodesk Revit Electrical Design Essentials - Schedule and Parameter Management Section

NEW QUESTION # 39

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