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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 copymonitor tools, exporting to different formats, managing design options, and transferring project standards to ensure effective teamwork in shared environments.

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"> • 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 5	<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.

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q30-Q35):

NEW QUESTION # 30

An electrical designer wants to schedule parameters from generic annotations Which type of schedule must be created?

- **A. A Note Block**
- B. D. A Sheet List
- C. A Generic Annotation schedule
- D. A Generic Family schedule

Answer: A

Explanation:

When an electrical designer wants to schedule parameters from Generic Annotations, the correct method is to use a Note Block, not a generic schedule. Revit documentation defines this process clearly under Annotation Schedules (Note Blocks):

"Annotation schedules, or note blocks, list all instances of annotations that you can add using the Symbol tool."

"Creating an Annotation Schedule (Note Block):

Load the generic annotation family or families into your project and place them where desired.

Click View tab > Create panel > Schedules drop-down > Note Block.

In the New Note Block dialog, for Family, select a generic annotation." This extract confirms that when working with generic annotation families, Revit requires the use of a Note Block to extract and list their parameters in a schedule. Standard schedules such as Generic Model or Family schedules cannot access data from Generic Annotations since they are annotation-based, not model-based.

NEW QUESTION # 31

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, Plain, Standard
- C. Above Counter, Standard
- D. Above Counter, GFCI, Standard

Answer: D

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

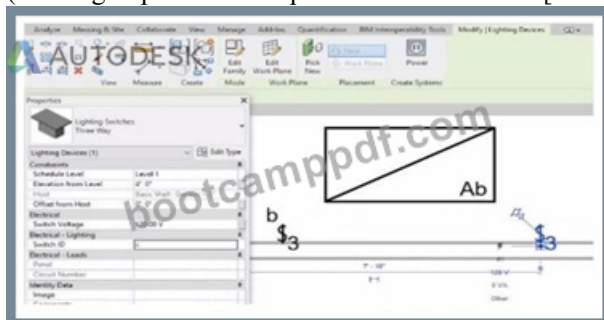
This matches answer choice:

B). Above Counter, GFCI, Standard

NEW QUESTION # 32

Refer to exhibit.

(The image is presented in Imperial units: 1 In = 25 mm [Metric units rounded].)



An electrical designer is trying to add the selected three-way switch to the existing switch system "b". The designer is unable to add the switch to the switch system.

Why is this problem occurring?

- A. The switch is not powered.
- **B. The switch's Switch ID parameter does not match the switch system.**
- C. Revit is not in Edit Switch System mode.
- D. A switch system can contain only one switch.

Answer: B

Explanation:

In Autodesk Revit Electrical Design, lighting control systems such as single-pole, three-way, and four-way switches are managed using Switch Systems. These systems logically connect lighting devices (switches) to the lighting fixtures they control. For multiple switches (like three-way configurations) to be part of the same control circuit, they must share the same Switch ID value.

In the exhibit, the electrical designer is attempting to add a three-way switch to the existing switch system labeled "b", but Revit does not allow it. The reason is that the Switch ID parameter of the new switch does not match the Switch ID of the system it is intended to join.

The Switch ID acts as the unique identifier that links all switches controlling the same group of fixtures. If the IDs differ (for example, "b3" versus "b"), Revit interprets them as belonging to separate systems and prevents them from being grouped together.

The Autodesk Revit MEP User's Guide - Electrical Systems: Lighting and Switch Systems explains this clearly:

"Switch systems are organized by Switch ID. All switches controlling the same lighting circuit must have identical Switch ID values.

Revit will not allow a switch to be added to an existing system if its Switch ID does not match that system's identifier." To fix this, the designer must:

Select the three-way switch.

In the Properties palette, locate the Switch ID parameter.

Change its value to match the target switch system's ID (in this case, "b").

Once both switches share the same Switch ID, Revit will successfully include them in the same Switch System.

NEW QUESTION # 33

Refer to exhibit.



Why is Synchronize with Central disabled?

After enabling collaboration for a project, an electrical designer observes the ribbon.

- A. The designer has unresolved editing requests.
- **B. The designer is working in the central model.**
- C. The designer has unrelinquished elements.
- D. The central model is unavailable or not found.

Answer: B

Explanation:

In Autodesk Revit, the Collaborate tab provides the tools necessary for managing multi-user worksharing environments. The Synchronize with Central command allows users to save their local changes back to the central model. However, this command becomes disabled under certain conditions - most notably when the user is currently working directly within the central file rather than a local copy.

The Autodesk Revit User's Guide - Worksharing and Collaboration section clearly explains this behavior:

"When you open the central file directly, the Synchronize with Central option is unavailable because all edits are already in the central file. Worksharing operations such as borrowing, relinquishing, or synchronization only apply to local copies created from the central model." This rule ensures that the integrity of the central model is preserved and that no user directly edits or synchronizes within it, preventing potential file corruption. In normal collaborative workflows, users open local copies of the central model. The local files maintain an editable subset of elements while allowing synchronization and relinquishing operations.

Thus, the disabled Synchronize with Central button (as shown in the exhibit) indicates that the designer is currently in the central model, not a local copy. Since synchronization is unnecessary in this state - all changes are automatically applied to the central file - the command is grayed out.

NEW QUESTION # 34

An electrical designer needs to directly connect panel B to panel A without a breaker. Panel A's load must reflect the entire load from panel B. Which conditions must be met to ensure that panel B is correctly connected to panel A?

- A. Both panels are assigned to the same distribution system, and the connection type is set to feed through lugs.
- B. Both panels are assigned to the same switchboard, and the subfeed lug breaker option is selected.
- C. Both panels are assigned to the same distribution system, and the circuit subfeed panel type option is selected.
- D. Both panels are connected via a transformer, and the connection type is set to feed through lugs.

Answer: A

Explanation:

In Autodesk Revit Electrical Design, when an electrical designer needs to directly connect Panel B to Panel A without a breaker-such that Panel A's load includes the total load from Panel B-the correct method is to configure both panels to use the same distribution system and to set Panel B's connection type to Feed Through Lugs.

According to the Autodesk Revit MEP User Guide, Chapter 17: Electrical Systems, under "Creating Power and Lighting Circuits" and "Panel Properties" sections:

"When connecting panels in series, ensure both devices share the same distribution system. If a subpanel is required to pass its total load through to another panel without circuit protection, specify the connection type as Feed Through Lugs. This connection allows the upstream panel to include the total connected load from the subpanel in its own load summary." The feed-through lugs configuration enables the second panel (Panel B) to be electrically tied to the first (Panel A) as though it were an extension of the same bus. Unlike breaker or main-lug-only setups, the feed-through configuration does not insert a protective breaker between the two panels. Instead, it provides a continuous feeder connection where the parent panel's load schedule automatically aggregates the downstream panel's total load.

This setting is found in Revit's Properties Palette for electrical equipment:

Under Electrical - Circuiting, the designer must ensure both panels use the same Distribution System (e.g., 208Y/120V 3 4W).

Then, under Connection Type, select Feed Through Lugs.

The Smithsonian Facilities Revit Template Electrical Standards Guide also confirms this best practice:

"Feed-through panels are used when a subpanel's total load must be reported in the main distribution panel without additional breakers. Both panels must share identical voltage and phase configurations within the same distribution system." Why the Other Options Are Incorrect:

A. The "subfeed lug breaker" introduces a breaker, contradicting the requirement of no breaker.

B. "Circuit subfeed panel type" is not a standard Revit configuration; Revit uses connection types instead.

D. Transformers alter the voltage distribution; the question specifies a direct connection within the same system.

Therefore, the correct configuration that meets all design and load reflection requirements is:

☐ C. Both panels are assigned to the same distribution system, and the connection type is set to feed through lugs.

References:

Autodesk Revit MEP User Guide - Chapter 17 "Electrical Systems," Sections: "Creating Power and Lighting Circuits" and "Panel Properties," pp. 420-426 Autodesk Revit Electrical Design Essentials - Topic: "Feed-Through Connections and Subpanel Load Reflection" Smithsonian Facilities Revit Template User's Guide - Section 9.3 "Panel Configuration and Feed-Through Connections," p. 96

NEW QUESTION # 35

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