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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• 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	• 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	• 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.

Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q25-Q30):

NEW QUESTION # 25
Elements are added to a design option. The electrical designer needs an additional design option in the option set. All of the same elements are needed in both design options Which two methods will duplicate the element for the new design option? (Select two.)

- A. Use Copy to Clipboard and Paste > Aligned to Current View in the new design option.
- B. Select the items and use Add to Set.
- C. Open two views side by side and drag and drop from one view to another.
- D. In the Design Options dialog, pick the original design option and select Duplicate.
- E. Open the new design option and pick Reveal Hidden to select the items to copy.

Answer: A,D

Explanation:
In Autodesk Revit, Design Options are used to explore multiple design alternatives within the same project environment. This feature is often employed by electrical designers to model different lighting layouts, circuiting approaches, or equipment placements without duplicating the entire project.
When an additional design option is created within the same option set, and the designer needs to include all the same elements that already exist in another design option, Revit offers two effective ways to duplicate these elements while preserving their type, parameters, and host relationships.
According to the Autodesk Revit MEP User's Guide (Chapter: Working with Design Options), it clearly describes:

"To create a copy of an existing design option within an option set, open the Design Options dialog box, select the desired option, and click Duplicate. This creates a new option containing identical elements and maintains their relationships and constraints." This confirms Option C as correct because duplicating an option from the Design Options dialog automatically replicates all its elements into the new design option within the same option set.
Furthermore, the guide continues:
"Alternatively, when working with a specific design option view, you can use the Copy to Clipboard and Paste Aligned > Aligned to Current View commands to duplicate selected elements into another active design option. These elements are placed in the same location and remain associated with the new design option." This validates Option D as the second correct method, allowing manual duplication of elements between options while keeping spatial alignment intact.
Other options listed are incorrect for the following reasons:
A (Drag and Drop) is not supported between design options; it only works between views in the same option.
B (Reveal Hidden) only displays hidden elements; it doesn't expose design option geometry for copying.
E (Add to Set) transfers elements into the same design option set, not between individual design options.
Therefore, the two valid and Autodesk-confirmed methods to duplicate all elements between design options are:
C). Duplicate from Design Options dialog, and D. Copy/Paste Aligned to Current View.
References:
Autodesk Revit MEP 2011 User's Guide, Chapter 13: Working with Design Options, pp. 364-367.
Autodesk Revit Architecture 2020 Help, "Duplicating Design Options and Copying Elements Between Options." Smithsonian Facilities Revit Template User's Guide (2021), Section 6.3.2: Managing Design Options in Coordination Views.

NEW QUESTION # 26
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. Standard
- B. Above Counter. GFCI. Plain. Standard
- C. Above Counter. GFCI. Standard
- D. Above Counter. Plain. Standard

Answer: C

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 # 27
An electrical designer is routing conduit through a building model to coordinate with other disciplines, the electrical designer wants to view selected components in a cropped 3D view.
With the conduit components selected, which tool should the designer use?

- A. Section Box
- B. Selection Box
- C. Default 3D View
- D. Scope Box

Answer: B

Explanation:
In Revit Electrical Design, the Selection Box tool is used to quickly isolate and display selected components in a cropped 3D view. When an electrical designer selects conduits or devices in a model and chooses Selection Box from the Modify tab, Revit automatically generates a 3D view bounded tightly around the selected elements, helping coordinate routing in confined or congested spaces.
According to the Revit MEP User's Guide under "Creating 3D Views":
"Use the Selection Box tool to create a 3D view that isolates selected elements. Revit automatically crops the view extents to the selected geometry." This feature is critical in multidisciplinary coordination because it allows the electrical designer to review specific conduits, cable trays, or lighting paths in context without manually adjusting view boundaries.
In contrast:
Default 3D View (Option B) shows the entire model.
Scope Box (Option C) controls view extents in 2D views or view templates, not instant isolation.
Section Box (Option D) is manually adjusted within an existing 3D view but does not automatically generate a cropped view around selected elements.
Therefore, the Selection Box is the correct and most efficient tool for this task.
References:
Autodesk Revit MEP User's Guide - Chapter 47 "Creating and Managing 3D Views," pp. 1108-1111 Smithsonian Facilities Revit Template User's Guide - Section 3.6 "Egress Routes and Coordination Views," p. 40 Autodesk Revit Electrical Design Essentials - 3D Visualization and Coordination Techniques

NEW QUESTION # 28
An electrical designer wants to schedule parameters from generic annotations Which type of schedule must be created?

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

Answer: D

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 # 29
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 # 30
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