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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"> 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 & paste tools, exporting to different formats, managing design options, and transferring project standards to ensure effective teamwork in shared environments.

>> RVT_ELEC_01101 Test Labs <<

Quiz RVT_ELEC_01101 - Autodesk Certified Professional in Revit for Electrical Design –High Pass-Rate Test Labs

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q56-Q61):

NEW QUESTION # 56

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 the new design option and pick Reveal Hidden to select the items to copy.
- D. In the Design Options dialog, pick the original design option and select Duplicate.
- E. Open two views side by side and drag and drop from one view to another.

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.

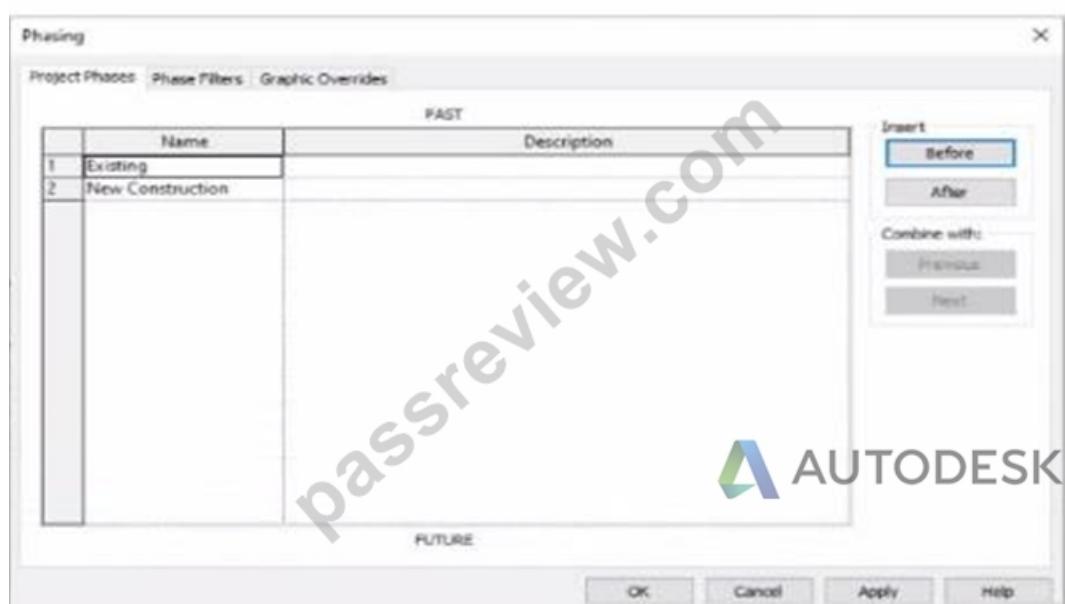
References:

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 # 57

Refer to exhibits.



An electrical designer models an existing receptacle on an existing wall that the architect has indicated to be demolished.

The view is intended to show demolition, and the view's Phase is set to New Construction. How should the designer indicate that the receptacle must also be demolished?

- A. Set the receptacle parameter Phase Demolished to New Construction.**
- B. Add a Demolition phase, then set the receptacle parameter Phase Demolished to Demolition.
- C. Set the receptacle's type parameter Match Phasing to Host.
- D. Set the receptacle parameter Phase Demolished to Demolition.

Answer: A

Explanation:

In Autodesk Revit, phasing allows designers to track existing, demolished, and new elements across different project stages. Every model element includes two key phasing parameters:

Phase Created - defines when the element was built or introduced.

Phase Demolished - defines when the element is removed or demolished.

In the provided exhibits:

The project contains two phases: Existing and New Construction.

The receptacle's Phase Created parameter is set to Existing, indicating it belongs to the pre-existing building condition.

The architectural wall hosting the receptacle is to be demolished during New Construction.

When a view's Phase is set to New Construction and its Phase Filter is configured to show demolition, only elements whose Phase Demolished equals New Construction will appear as to be demolished. Therefore, the electrical designer must set the receptacle's Phase Demolished value to New Construction so that it graphically displays as a demolished element in the demolition plan.

As explained in the Autodesk Revit MEP User's Guide - Phasing and Coordination:

"Elements created in one phase and demolished in a subsequent phase must have their 'Phase Demolished' parameter set to that later phase to display properly in demolition views." Thus, to correctly coordinate with the demolition of its host wall, the receptacle must be flagged for demolition during New Construction.

NEW QUESTION # 58

Refer to exhibit.

An electrical designer has accidentally hosted Panel B to Panel A. Select two ways the designer can correct hosting. (Select two.)

- A. Use the Move command.
- B. Use the Pick New command in the Work Plane panel.
- C. Edit the Host value in the Properties palette.
- D. Edit the Mounting value in the Properties palette.
- E. Use the Edit Work Plane command

Answer: B,E

Explanation:

In Autodesk Revit's Electrical discipline, when electrical components such as panelboards are hosted incorrectly (for example, Panel B hosted to Panel A instead of a wall or level), the hosting relationship must be corrected by reassigning the work plane or host. This is essential because hosted electrical elements depend on the geometry or level of their host for placement, alignment, and coordination.

According to the Revit MEP User's Guide (Chapter 45 "Work Planes and Element Hosting"):

"If a hosted element is placed incorrectly or the host has changed, use the Edit Work Plane or Pick New commands to redefine its host or work plane." Here's how these two tools apply:

Pick New (Option A)

Located under the Work Plane panel on the Modify tab, this command allows you to select a new face or host (e.g., a wall, ceiling, or floor) for the existing component. It effectively reassigns the element's host without deleting or recreating the element.

"Use Pick New to specify a different face or surface as the host for a component that was incorrectly placed."

Edit Work Plane (Option E)

This command lets the designer redefine the reference level or named work plane to which an element is associated. For hosted electrical equipment (like lighting or panels), this ensures the object references the correct structural or architectural surface.

"To correct hosting errors, open Edit Work Plane from the Modify tab, and assign a new named plane, level, or face." Incorrect Options Explanation:

- B . Edit Mounting value - changes only how the panel is mounted (e.g., recessed or surface), not the host itself.
- C . Move command - repositions the element but does not change the hosting relationship.
- D . Edit Host value - the "Host" parameter is read-only; it cannot be edited directly.

Thus, the correct methods to rehost Panel B from Panel A to the correct wall or work plane are through Pick New and Edit Work Plane, ensuring proper association and maintaining system connectivity.

References:

Autodesk Revit MEP User's Guide - Chapter 45 "Work Planes and Hosting," pp. 1068-1072 Smithsonian Facilities Revit Template User's Guide - Section 6.2.3 "Complex Geometry and Multiple Parametric Relationships," p. 57 Autodesk Revit Electrical Design Essentials - "Rehosting Electrical Equipment and Devices"

NEW QUESTION # 59

Exhibit.



An electrical designer creates a panel schedule. Which Electrical Equipment parameter defines the default name of the panel schedule view?

- A. Description
- B. Panel Name
- C. Mark
- D. Type Mark

Answer: B

Explanation:

In Autodesk Revit for Electrical Design, when a designer creates a panel schedule, the default name of the panel schedule view is automatically derived from the Panel Name parameter of the Electrical Equipment family to which the circuits are assigned.

According to the Revit MEP User's Guide (Electrical Systems section: Panel Schedules):

"When you create a panel schedule, Revit uses the Panel Name parameter of the electrical equipment to define the default schedule name. The Panel Name identifies the distribution panel that supplies the circuits. This name appears in both the Panel Schedule view and in circuit information tags."

- Revit MEP User's Guide, Chapter 17: Electrical Systems - Panel Schedules The Panel Name is a critical electrical equipment instance parameter located in the Electrical - Circuiting group of properties.

It appears in both the Electrical Equipment Properties Palette and the Panel Schedule Header. This name can later be modified manually, but by default, it directly controls the naming convention of the generated schedule.

In contrast:

- A . Type Mark - identifies types within the family for documentation and does not control schedule naming.
- B . Mark - a unique instance identifier often used for tags, but not for panel schedule view naming.
- C . Description - provides descriptive text only for documentation or labeling.
- D . Panel Name - correctly defines and drives the default schedule view name for panels and circuits.

When a panel (electrical equipment) is placed in the model and circuits are connected, Revit generates a new Panel Schedule View automatically titled using the value entered in the Panel Name field (e.g., "Panel LP-1"). This ensures consistency between the modeled equipment and the schedule documentation.

Verified Reference Extracts from Revit for Electrical Design Documentation:

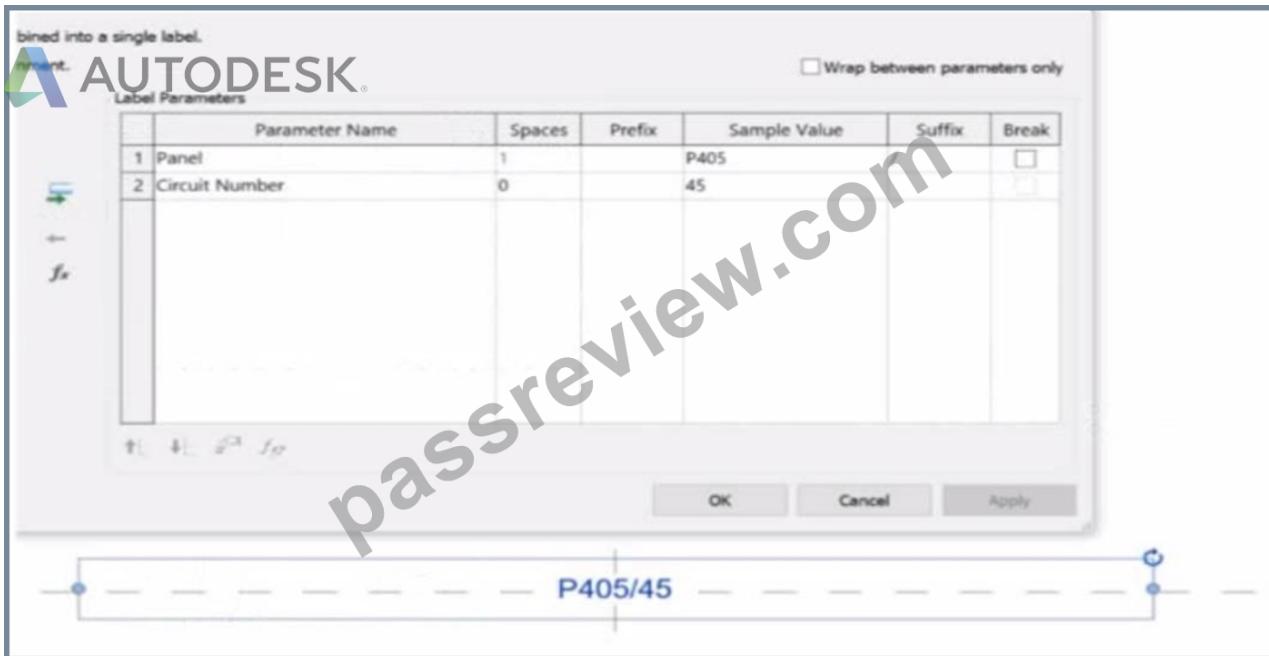
Autodesk Revit MEP User's Guide (2011), Chapter 17: Electrical Systems - Creating and Editing Panel Schedules:

"The name of the panel schedule view is determined by the Panel Name property of the electrical equipment." Revit MEP Electrical Design Training Manual, Module: Electrical Equipment and Panel Schedules:

"Panel Name is used by Revit as the default identifier for any panel schedule view created for that equipment."

NEW QUESTION # 60

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 # 61

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