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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 copy monitor 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"> 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 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.

Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q15-Q20):

NEW QUESTION # 15

An electrical designer is trying to adjust the scale of a view. All icons on the View Control Bar are dimmed (not enabled). How should the designer make the view scale editable only for this view?

- A. Set the view template to <None>
- B. Right-click on the scale and select <Activate>.
- C. Edit the assigned view template.
- D. Duplicate the view with Detailing.

Answer: A

Explanation:

When all icons on the View Control Bar are dimmed (disabled), including the View Scale, it typically means the view is being controlled by a View Template. View templates apply standardized settings-such as scale, discipline, detail level, and more-across multiple views to ensure consistency. However, these templates can lock certain parameters, including the view scale, preventing manual changes.

According to Revit Electrical Design standards:

"If a view is governed by a View Template, properties such as view scale may be locked and appear dimmed in the View Control Bar. To regain control and allow changes like adjusting the view scale, the view template must be removed. This is done by setting the View Template to <None> in the Properties Palette." Steps:

Select the view in question.

Open the Properties Palette.

Locate the View Template parameter.

Set it to <None>.

Now the View Control Bar becomes active and the scale can be changed freely.

Clarification of Other Options:

B (Edit the assigned view template): Changes apply to all views using that template, not just the one.

C (Duplicate the view with Detailing): Creates a copy but doesn't resolve template restrictions.

D (Right-click on the scale and select <Activate>): This is not a valid method in Revit.

Reference:

This explanation aligns with the View Template behavior documented in Revit MEP and Electrical modeling workflows.

NEW QUESTION # 16

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

Answer: D

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.

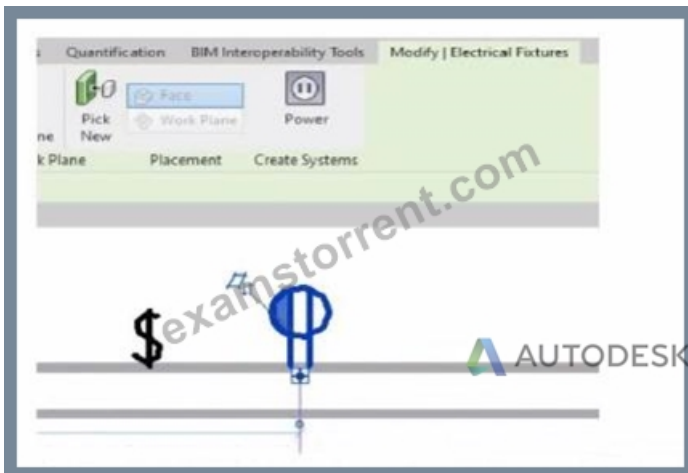
This ensures accurate positioning and easy coordination between disciplines.

"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 # 17

Refer to exhibit.



An electrical designer is circuiting a dwelling unit. The receptacle (electrical fixture) shown must be controlled by the switch (lighting device) shown to switch a plug-in lamp. When the receptacle is selected, Revit does not provide an option to add the receptacle to a switch system.

What is causing this issue?

- A. Only lighting fixtures can be added to switch systems.
- B. A switch system has not yet been created.
- C. The receptacle's "Switchable" option is not selected within the family editor.
- D. The switch and the receptacle are not on the same circuit.

Answer: C

Explanation:

In Autodesk Revit Electrical Design, when an electrical designer attempts to control a receptacle (an Electrical Fixture family) with a switch (a Lighting Device family) as part of a switch system, Revit will only allow this connection if the receptacle's family has been configured as Switchable within the Family Editor.

According to the Autodesk Revit MEP User's Guide (Chapter 17 - "Electrical Systems"):

"Revit allows you to add elements such as lighting fixtures or receptacles to a switch system only if the family includes a switchable connector. The 'Switchable' parameter must be enabled in the Family Editor to allow this connection." This means that for the receptacle shown in the exhibit to appear as an available component for switching, the Electrical Connector within its family must have the Switchable property checked. This parameter is found under:

Family Editor → Select Connector → Properties Palette → Electrical - Data → Switchable.

If this option is not enabled, Revit treats the receptacle as a standard unswitched outlet and will not display it in the switch system creation dialog. Once the option is checked, the designer can reload the family into the project and associate it with a switch system normally.

Additionally, the Smithsonian Facilities Revit Template User's Guide explains this concept as follows:

"To associate receptacles with lighting switches, ensure that the receptacle family has a switchable connector. Without this setting, the device will not appear as an assignable component to a switch system." This distinction is important in residential electrical modeling, where switched receptacles are common for plug-in lamps. Lighting circuits can include both Lighting Fixtures and Switchable Receptacles when the family configuration supports it.

Incorrect Options Explanation:

A . A switch system not being created is irrelevant - the issue occurs before system creation.

C . Being on the same circuit doesn't affect switchability; it affects electrical load connection.

D . Incorrect - Revit supports switchable receptacles if properly configured.

Therefore, the correct answer is B. The receptacle's "Switchable" option is not selected within the family editor.

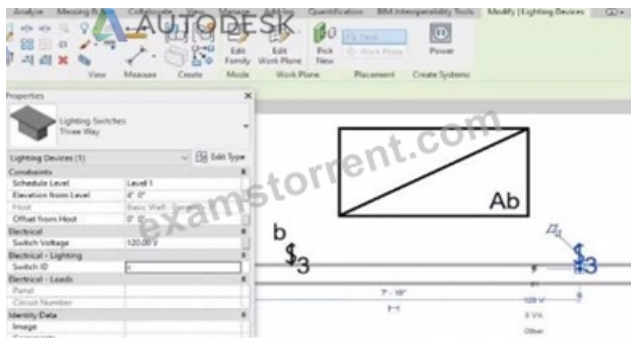
References:

Autodesk Revit MEP User's Guide - Chapter 17 "Electrical Systems," pp. 417-421 Autodesk Revit Electrical Design Essentials - Section "Creating and Editing Electrical Fixtures and Switch Systems" Smithsonian Facilities Revit Template User's Guide - Section 8.4 "Switchable Receptacle Family Standards," p. 89

NEW QUESTION # 18

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

Answer: A

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 # 19

Which feature shows which user created an element?

- A. Worksets dialog
- B. Gray Inactive Worksets
- C. Worksharing display modes
- D. Show History

Answer: C

Explanation:

In Autodesk Revit, the Worksharing Display Modes feature allows designers to visually inspect ownership and editing information about elements in a workshared model.

According to the Autodesk Revit MEP User Guide - Chapter 54 "Working in a Team":

"Worksharing Display Modes can be used to visualize the ownership of elements, including which user created or modified them. For example, you can use the Worksharing Display command to show elements by their owner, workset, or checkout status." Thus, this mode identifies which user created or owns an element - making B. Worksharing display modes the correct choice.

Other options:

A. Gray Inactive Worksets: Only shows non-active worksets in gray, not creator info.

C. Show History: Displays synchronization comments, not element ownership.

D. Worksets dialog: Shows ownership of worksets, not individual elements.

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