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## Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

| Topic | Details |
|-------|---------|
| Topic 1 | • 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 2 | • 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<br>• monitor tools, exporting to different formats, managing design options, and transferring project standards to ensure effective teamwork in shared environments. |
|---|---|
| Topic 3 | • 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 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. |

>> **RVT_ELEC_01101 Simulations Pdf** <<

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# Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q19-Q24):

**NEW QUESTION # 19**
An electrical designer is adding lights to a project model. The coiling grids arc located in a linked Revit model. How are these lights affected if the grid patterns move?

- A. The lights move with the pattern if they are defined as ceiling-hosted types.
- B. The lights move with the pattern if they are alignment-locked to the ceiling and hosted.
- C. The lights do not move with the pattern but will stay associated with the ceiling if hosted
- D. The lights do not follow grid pattern movement unless they are non-hosted.

**Answer: C**

Explanation:
When working in Autodesk Revit for MEP Electrical Design, lighting fixtures can be either hosted (such as ceiling-hosted or wall-hosted) or non-hosted. The movement of lighting fixtures in relation to linked model elements-like ceiling grids-is determined by the hosting condition and alignment constraints applied to those elements.
According to the Revit MEP User's Guide (Chapter 24 "Ceilings" and Chapter 50 "Rendering"), a ceiling is a level-based element. You can create it on a specified level and host ceiling-based families such as lighting fixtures. When a ceiling is modified or repositioned, the hosted lighting fixtures will move with the ceiling itself, maintaining their relationship to the host surface. However, when ceiling grid patterns are changed or moved in a linked Revit model, the movement of those grid patterns does not automatically

propagate to hosted elements in the electrical model unless those elements are directly linked or constrained to a movable reference plane.

As described:

"Ceilings are level-based elements... When you create a ceiling, you can host components such as lighting fixtures on its face. Hosted elements remain associated with their host even if the ceiling is modified." And further in the glossary section:

"Rehost: To move a component from one host to another. For example, you can use the Pick New Host tool to move a window from one wall to another wall." This confirms that a hosted light fixture maintains its attachment to the host element (the ceiling) but not to the grid pattern itself. Grid movement within a linked ceiling model does not alter the position of lights unless they are manually re-hosted or alignment-locked directly to a specific geometry within the host model.

Therefore, the correct interpretation is that when ceiling grid patterns move within a linked Revit model, the lights placed in the electrical model do not follow the grid pattern movement automatically. They remain stationary relative to the ceiling surface, provided they are hosted correctly.

This behavior reflects Revit's parametric relationships - "hosted elements maintain dependency only on their host, not on graphical references like grids unless locked via constraints." References:

Autodesk Revit MEP User's Guide, Chapter 24 "Ceilings", pp. 579-583

Autodesk Revit MEP User's Guide, Chapter 50 "Rendering" (Lighting Fixtures and Hosts) Autodesk Revit Glossary: "Rehost" definition, p. 2037 Revit Electrical Design Parametric Model Behavior - Revit MEP Essentials

## NEW QUESTION # 20

An electrical designer Is working on a workshared model.
Which two worksharing display settings can the designer use to visualize model elements that have no ownership? (Select two.)

- A. Model Updates
- B. Gray Inactive Worksets
- C. Owners
- D. Worksets
- E. Checkout Status

**Answer: C,E**

Explanation:

When working in a workshared Revit model, elements without ownership can be visually identified using Worksharing Display Settings.

As per Revit MEP Worksharing Guide - Worksharing Display Modes section:

"Worksharing display modes include options such as Checkout Status, Owners, and Worksets.

The Checkout Status mode shows elements that are not owned or are available for editing.

The Owners mode highlights elements based on who owns them, allowing unowned elements to appear as 'none.'" Therefore:

☐ B. Checkout Status - shows elements that are editable or not owned.

☐ E. Owners - displays which elements are owned and highlights those without ownership.

Incorrect options:

A . Worksets: Shows which workset an element belongs to, not ownership.

C . Gray Inactive Worksets: Only grays out inactive worksets.

D . Model Updates: Not a valid worksharing display setting.

## NEW QUESTION # 21

A project has 24 branch panel schedules that all need the same formatting changes. What should the electrical designer do?

- A. Use the Manage Templates command to edit and apply the template changes to all panel schedules.
- B. Edit a panel schedule, right-click and choose Duplicate View, and duplicate changes lo desired panel schedules.
- C. Select all panel schedules in the Project Browser, right-click and choose Apply Template Properties, and select the desired template.
- D. Assign the desired view template to the panel schedules in the Properties panel.

**Answer: C**

Explanation:

To ensure consistency and efficiency when multiple branch panel schedules require identical formatting, Revit allows applying a panel schedule template to one or more schedules simultaneously.

The documented procedure states:

"You can apply a template to one or more existing panel schedules."
And further:
"Select the panel schedule(s).
For Apply Templates, specify the template to apply to the selected panel." This functionality lets an electrical designer select all 24 branch panel schedules in the Project Browser, right-click and apply the desired template to update formatting across all selected schedules in a single operation.

## NEW QUESTION # 22

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

**Answer: D**

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 # 23

Refer to exhibit.
To which panel Is Panel P4 circuited?

- A. Panel P 5
- B. Panel P 1
- C. Panel P 3
- D. Panel P 2

**Answer: D**

Explanation:
In Autodesk Revit MEP Electrical Design, the System Browser is used to analyze and verify electrical systems, including panelboard connections, circuit hierarchies, and connected loads.
From the exhibit, the Properties palette shows that the selected equipment is a Lighting and Appliance Panelboard (208V MLO, 100A), named P4. To determine the parent panel that feeds Panel P4, we refer to the System Browser, which organizes the entire electrical distribution network hierarchically under the Electrical discipline.
In the System Browser on the right, under the Electrical category, we can observe that Panel P4 is nested directly under Panel P2.
This organization indicates that P4 is circuited to (or fed from) Panel P2.

According to the Revit MEP 2011 User's Guide, Chapter 4, "Electrical Systems-Using the System Browser," it states:
"The System Browser displays electrical systems in a tree structure. Each subpanel or device listed beneath a main panel is connected to that panel through an electrical circuit. When a panelboard appears under another, it indicates the subpanel is fed from that parent panel." This is further reinforced in Smithsonian Facilities Revit Electrical Template Documentation (April 2021), Section 8.3 "Documentation Views," which describes:
"Panel schedules and browser hierarchies show the distribution sequence. Subpanels appear indented beneath their source panel, indicating electrical dependency and circuit assignment." Therefore, by interpreting both the Revit interface and Autodesk's documentation, Panel P4 is a subpanel connected to Panel P2, confirming that its electrical feed is assigned from Panel P2.
Final Verified answer: B. Panel P2
Reference Sources:
Autodesk Revit MEP 2011 User's Guide, Chapter 4 - Electrical Systems and the System Browser Smithsonian Facilities Revit Template User's Guide, Section 8.3 - Electrical and Fire Alarm Templates: Documentation Views


## NEW QUESTION # 24

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