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## Autodesk RVT\_ELEC\_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>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.</li> </ul>

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### Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q61-Q66):

#### NEW QUESTION # 61

Refer to exhibit.

An electrical designer tries to place a generic annotation family in a data device family. The designer receives the error message as shown. What should the designer do?

- A. Edit the generic annotation family and set it to Shared.
- B. Select the Maintain Annotation Orientation parameter checkbox
- C. Change the Detail Level to Coarse.
- D. Set the view to the Ref. Level.

**Answer: A**

Explanation:

The warning message - "Can't create this kind of element in this view in the current mode" - appears when an electrical designer attempts to place a Generic Annotation family inside a model family (e.g., a data device or electrical fixture) that is not configured to host annotation elements.

According to the Revit Electrical Design documentation, Generic Annotation families are 2D annotation elements, and therefore, cannot be created or viewed in 3D model views unless configured as "Shared." The official guide clarifies:

"You can create generic annotation families and nest them inside host model families so that the annotations display in the project."

However, this only functions correctly if the annotation is enabled to act independently within the host:

"To allow a nested annotation to be visible and editable when placed in a host model family, the nested annotation must be set to Shared before loading it into the host." If the nested annotation is not set to Shared, Revit cannot create or display it in the host's model view, triggering this exact warning.

Thus, the correct workflow is:

Open the Generic Annotation family in the Family Editor.  
Go to Family Category and Parameters.  
Check the box "Shared" under Family Parameters.  
Save and reload the family into the host electrical device family.  
Other options-changing view level, detail level, or annotation orientation-do not resolve this placement restriction.

### NEW QUESTION # 62

Which condition applies when placing a ceiling-hosted light fixture?

- A. The light must be placed in the same model as the ceiling
- B. The light must be defined in the ceiling layout pattern.
- C. The light must be snapped to the ceiling using nodes.
- D. The light must be hosted to the ceiling reference plane.

**Answer: A**

Explanation:

According to Autodesk's Revit MEP User's Guide (Revit MEP 2011, Chapter 17 "Electrical Systems"), lighting fixtures in Revit are hosted components-this means they rely on another model element (like a wall, ceiling, or floor) to exist. Specifically, ceiling-hosted lighting fixtures must be placed on a ceiling element that is within the same model file in which the light is being placed.

From the document:

"Most lighting fixtures are hosted components that must be placed on a host component (a ceiling or wall). To place a lighting fixture in a view:

In the Project Browser, expand Views (all) > Floor Plans, and double-click the view where you want to place the lighting fixture.

Click Home tab > Electrical panel > Lighting Fixture.

In the Type Selector, select a fixture type.

On the ribbon, verify that Tag on Placement is selected to automatically tag the fixture.

Move the cursor over the drawing area.

The lighting fixture is previewed as you move the cursor over a valid host or location in the drawing area.

Click to place the lighting fixture."

- Revit MEP User's Guide, Chapter 17: Electrical Systems, p. 402

Additionally, in the Rendering section of the same guide, Autodesk clearly defines hosting relationships in lighting fixture templates:

"The names of all lighting fixture templates include the words Lighting Fixture. Be sure to select the appropriate template for the type of lighting fixture that you want to create. For example, to create a ceiling-based fixture for metric projects, use Metric Lighting Fixture ceiling based.rft.

Revit MEP opens the Family Editor. The template defines reference planes and a light source. For ceiling-based and wall-based fixtures, the template includes a ceiling or wall to host the fixture."

- Revit MEP User's Guide, Chapter 50: Rendering, p. 1148

This indicates that the ceiling host must physically exist within the same model environment. If the ceiling is part of a linked architectural model, the lighting fixture cannot attach to it directly because Revit does not allow cross-model hosting. In such cases, a work plane-based or face-based light family must be used instead.

Therefore, among the given options:

A (snapping using nodes) and B (hosted to a ceiling reference plane) are partial actions within a placement workflow, not hosting conditions.

C (defined in the ceiling layout pattern) is incorrect because pattern layout does not determine hosting.

D (placed in the same model as the ceiling) is correct since Revit requires the ceiling host and the light fixture to exist in the same project file for the hosting relationship to function.

Verified Reference Extracts from Revit for Electrical Design Documentation:

Autodesk Revit MEP User's Guide (2011), Chapter 17: Electrical Systems, p. 402 - "Most lighting fixtures are hosted components that must be placed on a host component (a ceiling or wall)." Autodesk Revit MEP User's Guide (2011), Chapter 50: Rendering, p. 1148 - "For ceiling-based and wall-based fixtures, the template includes a ceiling or wall to host the fixture." Revit MEP Family Templates Description - Metric Lighting Fixture ceiling based.rft defines the ceiling as the hosting reference within the same model environment.

### NEW QUESTION # 63

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

**Answer: A,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 # 64

Refer to exhibit.

□

- A. Select the callout and change its type from the Type Selector.
- B. Open the callout view from the Project Browser and change its type.
- C. Select the callout and choose a detail view under Reference Other View.
- D. Delete the existing callout and create a new one with the correct type.

**Answer: C**

Explanation:

In Autodesk Revit, when an electrical designer creates a callout view, the software automatically generates a new dependent or independent view based on the selected callout type. However, if a callout is accidentally linked to the wrong or redundant view, the designer can easily reassign it to another existing view without recreating the callout. This can be done using the Reference Other View property in the Properties palette.

According to the Revit MEP User's Guide (Chapter 47 "Views and Callouts"):

"To link a callout to an existing view rather than creating a new one, select the callout, and under the properties for that element, use Reference Other View to specify the desired target view." This means that when the designer selects the callout (in this case, shown as "L0 - Power - Callout 1" in the Project Browser), they can modify the Reference Other View setting from the Properties palette to point to a different, pre-existing detail view or callout view—for example, one showing an enlarged power distribution layout or switchboard detail.

This is the most efficient workflow because:

It avoids recreating or redrawing the callout (unlike Option C).

It preserves all annotation and sheet referencing data.

It ensures alignment and consistency across sheet references.

The Smithsonian Facilities Revit Template User's Guide reinforces this standard Revit practice:

"When a view reference or callout is incorrectly associated, use the Reference Other View property to redirect the annotation to an existing detail or dependent view." Why the Other Options Are Incorrect:

B . Change its type from the Type Selector: Callout types control annotation style (not the referenced view).

C . Delete and recreate: This is unnecessary and inefficient.

D . Open the callout view and change its type: Callout type cannot be changed directly once created; it's controlled by view properties.

Therefore, the correct and Revit-recommended approach is Option A: Select the callout and choose a detail view under Reference Other View.

References:

Autodesk Revit MEP User's Guide - Chapter 47 "Views and Callouts," pp. 1092-1097 Smithsonian Facilities Revit Template

User's Guide - Section 2.8.1 "View Types and Templates," pp. 29-31 Autodesk Revit Electrical Design Essentials - "Callouts, Detail Views, and Referencing Workflows"

### NEW QUESTION # 65

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: A**

Explanation:

In the exhibit, the Label Parameters for the electrical device tag are configured as follows:

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 # 66

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