

RVT_ELEC_01101合格記 & RVT_ELEC_01101模擬対策問題



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>> RVT_ELEC_01101合格記 <<

RVT_ELEC_01101模擬対策問題 & RVT_ELEC_01101資格試験

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Autodesk Certified Professional in Revit for Electrical Design 認定 RVT_ELEC_01101 試験問題 (Q51-Q56):

質問 # 51

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.

正解: C

解説:

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

質問 # 52

An electrical designer is creating an electrical equipment family which will host conduit that can be modeled from any point on a specific side of the equipment. How should this be accomplished?

- **A. Click Conduit Connector click Surface Connector, and then select the desired face.**
- B. Click Conduit Connector, click Individual Connector, and then select the desired reference plane.

- C. Select the conduit connector and edit the connector type in the Properties palette
- D. Select the conduit connector and edit the connector dimensions

正解: A

解説:

To allow conduit to be modeled from any point on a specific side of the electrical equipment, the most accurate method is to use the "Surface Connector". This method enables the designer to place a surface-based conduit connector on a specific face of the equipment family. Here's how the process is explained:

"To place a conduit connector on the surface of a family component so that the conduit can start from anywhere on that surface, use the Surface Connector option. This connector attaches to the selected face of the equipment, allowing conduit to be drawn directly from any point on the selected face in the project environment."

"Click Conduit Connector, then choose Surface Connector, and select the face where the conduit should connect. This gives flexibility in modeling, especially for equipment requiring multiple connection points across a single face or allowing freedom of routing." This process is especially beneficial in custom electrical equipment families where conduits must originate from arbitrary points along a flat side-ensuring both parametric flexibility and coordination ease within the project environment.

In contrast:

Option A refers to editing connector dimensions, which does not affect the connector's ability to accept connections from any surface point.

Option B uses Individual Connector which limits the connection to a specific point, not the whole face.

Option D refers to changing connector type in the Properties palette, which doesn't impact connector location or coverage on a face.

Reference:

Extracted from standard family creation documentation and Revit MEP best practices outlined in electrical family modeling sections.

質問 # 53

Which feature shows which user created 3n element?

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

正解: C

解説:

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.

質問 # 54

An electrical designer needs to add spaces to a model displaying the architectural room name and number. What should the designer do before creating the spaces?

- A. Select Save Positions for the architectural links in the Manage Links dialog.
- B. Select Room Bounding from the architectural link's type properties.
- C. Change the architectural model display settings to By Host View,
- D. Use Transfer Project Standards to Import rooms from the architectural model.

正解: B

解説:

Before placing spaces in an MEP model that should reflect architectural room names and numbers, the linked architectural model

must be set to Room Bounding. This ensures that Revit recognizes the architectural walls and room boundaries, allowing the spaces to reference and display room information correctly.

As the Revit MEP documentation explains:

"Turns on the Room Bounding parameter for the linked model. This step ensures that the Revit MEP project recognizes room-bounding elements in the Revit Architecture project."

"The spaces use the room boundaries defined by the Revit Architecture project." Additionally, the section Using Room Boundaries in a Linked Model details the procedure:

"In a plan view of the host project, select the linked model symbol → Click Modify | RVT Links tab > Properties panel > (Type Properties). In the Type Properties dialog, select Room Bounding." Once this setting is enabled, Revit MEP automatically detects the architectural rooms, enabling the designer to place spaces that inherit the architectural room name and number.

質問 # 55

An electrical designer needs to add a drafting view to a model from another project. What is the method to do this?

- A. Select Link Revit, browse to the desired model, and then select desired drafting view
- **B. Select Insert from File, select Insert Views from File, browse to the desired project, and then select the drafting view.**
- C. Select Open, select the desired project, right-click the desired drafting view, and then copy/paste
- D. Select Transfer Project Standards, select the desired project, and then select the drafting view.

正解: B

解説:

In Autodesk Revit, a drafting view is a 2D view that contains detail information not directly associated with the model. When an electrical designer needs to reuse a drafting view from another project (for example, standard details or symbols), the correct method is to use the Insert Views from File command under the Insert tab.

The Autodesk Revit MEP User's Guide - Chapter 48 "Detailing" (page 1072) describes the process as follows:

"Inserting a Drafting View from Another Project

Click Insert tab > Import panel > Insert from File drop-down > Insert Views from File.

In the Open dialog, select a project file, and click Open.

The Insert Views dialog opens, displaying all the views that are saved in that project.

Select the desired drafting views and click OK."

(Revit MEP User's Guide, p. 1072)

This command imports the drafting view into the current Revit model while preserving annotations, filled regions, detail components, and text. It ensures that any standard electrical symbols, notes, or schematics created previously can be directly reused without rebuilding the detail from scratch.

If any duplicate type names exist, Revit automatically uses the types and properties from the current project, displaying a warning if necessary.

"Revit MEP creates a new drafting view with all the 2D components and text. If you have duplicate type names, the type name and properties from the current project are used." (Revit MEP User's Guide, p. 1072) Supporting Documentation Extracts:

"Saving Drafting Views to an External Project

Select a drafting view in the Project Browser.

Right-click the view name, and click Save to New File."

(Revit MEP User's Guide, p. 1071)

"The saved project can then be used later to insert drafting views into another Revit project using Insert Views from File." (Revit MEP User's Guide, p. 1072)

質問 # 56

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