

RVT_ELEC_01101 Fragenpool - RVT_ELEC_01101

Exam Fragen



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Autodesk RVT_ELEC_01101 Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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.
Thema 2	• 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.

Thema 3	• 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.
Thema 4	• 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.
Thema 5	• 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.

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RVT_ELEC_01101 Exam Fragen, RVT_ELEC_01101 Musterprüfungsfragen

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Autodesk Certified Professional in Revit for Electrical Design RVT_ELEC_01101 Prüfungsfragen mit Lösungen (Q32-Q37):

32. Frage

Refer to exhibits.

(The image is presented in Imperial units: 1 In = 25 mm (Metric units rounded].) An electrical designer creates a lighting fixture family with the following types and then saves the family.

- A. 0
- B. 1
- C. 2
- D. 3

Antwort: A

Begründung:

In Autodesk Revit, each type within a family represents a unique combination of parameters such as size, voltage, photometric properties, and construction configuration. When a family is created in the Family Editor, the designer can define multiple Family Types using the Family Types dialog. This interface allows the user to duplicate, rename, or modify type parameters before loading the family into a project.

In the exhibit, the Type Name dropdown list clearly shows two available lighting fixture types:

1x4 - 120

1x4 - 277

These two types appear to represent different voltage configurations of the same 1x4 light fixture format. Since these are the only types visible in the Family Types selection preview, the correct number of family types saved within the family file is two.

Revit's behavior aligns with standard family management described in documentation, which explains that every defined type is listed in the Family Types browser. When a designer saves a family, all defined types are stored and become available for placement in the project environment. Devices can then be selected based on parameters such as voltage or photometric values, which are often

driven by electrical design requirements.

The Revit MEP User's Guide explains how type properties and family types are controlled:

"Selection of named items or elements [such as Family Types] are managed through the Properties and Family Types dialogs, allowing multiple variations to exist within a single family."

33. Frage

Exhibit.

An electrical designer is working within a workshared electrical model. The designer reloads the linked architectural model and receives the message as shown in the exhibit. What does this message indicate?

- A. An element's host within the architectural model has changed.
- **B. A monitored element in the architectural model has changed.**
- C. There is a new coordination message within the architectural model.
- D. There is a new interference with the architectural model.

Antwort: B

Begründung:

The warning message shown - "Instance of link needs Coordination Review" - appears when Revit detects a modification in a monitored element within a linked model, typically during a coordination workflow between architectural and MEP (electrical, mechanical, plumbing) disciplines.

According to the Revit MEP User's Guide (Chapter 46 "Copy/Monitor and Coordination Review"):

"When a monitored element changes in the linked model, Revit displays a warning message indicating that the instance of the link needs Coordination Review. You can use the Coordination Review tool to accept, reject, or postpone the change." This mechanism ensures synchronization between linked models. For example, if the architectural ceiling or wall that hosts electrical elements (such as lighting fixtures or devices) is modified, moved, or deleted, Revit triggers this alert in the workshared MEP model.

The Smithsonian Facilities Template Guide further emphasizes:

"Coordination Review identifies monitored elements whose hosts or geometry have changed in a linked model. The designer must review these to maintain design consistency." Hence, the warning does not indicate a clash or interference (Option A), nor a coordination message created manually in the architectural model (Option B), but specifically a change in a monitored element in the linked architectural model (Option D).

References:

Autodesk Revit MEP User's Guide - Chapter 46 "Copy/Monitor and Coordination Review," pp. 1084-1088
Smithsonian Facilities Revit Template User's Guide - Section 3.4 "Coordination Views," p. 86
Autodesk Revit Electrical Design Essentials - Coordination Workflows and Monitoring Elements

34. Frage

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

Antwort: D

Begründung:

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.

35. Frage

Refer to exhibit.

A family in a project contains the following types:
The following edits are made in the Family Editor and loaded into the project:

1. The type Plain is renamed to Standard

2 A new type is added named GFCI

Which types does this family now have in the project?

1. The type Plain is renamed to Standard

- A. Above Counter. Plain. Standard
- **B. Above Counter. GFCI. Standard**
- C. Above Counter. GFCI. Plain. Standard
- D. Above Counter. Standard

Antwort: B

Begründung:

In Revit, when editing a family in the Family Editor and reloading it into a project, Revit handles type changes using specific update rules. Types that are renamed overwrite their earlier version in the project because they retain the same internal type ID. Types that are added to the family also appear in the project once reloaded.

Initially, the family contains two types:

Above Counter

Plain

The changes made in the Family Editor are:

Rename Plain → Standard

Add a new type named GFCI

According to documented Revit behavior for type updates:

"When a family is reloaded into the project, any renamed family type replaces its previous version while maintaining its parameter assignments. Newly created types are added as additional family types available for placement within the project." Therefore:

Plain no longer exists because it was renamed

Standard now exists in its place

GFCI is added as a new family type

Above Counter remains unchanged

Thus, the family in the project now contains:

☐ Above Counter

☐ GFCI

☐ Standard

This matches answer choice:

B). Above Counter, GFCI, Standard

36. Frage

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

Antwort: B

Begründung:

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.

37. Frage

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