

RVT_ELEC_01101 Schulungsangebot - RVT_ELEC_01101 Simulationsfragen & RVT_ELEC_01101 kostenlos downloaden



Viele Leute meinen, man braucht viel fachliche IT-Kenntnisse, um die schwierigen Autodesk RVT_ELEC_01101 IT-Zertifizierungsprüfung zu bestehen. Nur diejenigen, die umfassende IT-Kenntnisse besitzen, sind qualifiziert dazu, sich an der Autodesk RVT_ELEC_01101 Prüfung zu beteiligen. Jetzt gibt es viele Methoden, die Ihre unzureichenden Fachkenntnisse wettmachen. Sie können sogar mit weniger Zeit und Energie als die fachlich gutqualifizierten die Autodesk RVT_ELEC_01101 Prüfung auch bestehen. Wie es heißt, viele Wege führen nach Rom.

Autodesk RVT_ELEC_01101 Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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 2	• 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 3	• 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 4	• 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 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.

>> RVT_ELEC_01101 Examengine <<

RVT_ELEC_01101 Tests, RVT_ELEC_01101 Prüfungen

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Autodesk Certified Professional in Revit for Electrical Design RVT_ELEC_01101 Prüfungsfragen mit Lösungen (Q39-Q44):

39. Frage

An electrical designer is creating an electrical fixture family for a receptacle. The designer nests a generic annotation family that contains the receptacle symbol and a label. What must be done in the electrical fixture family so that the label value can be changed in a project?

- A. In the Visibility Settings for the nested generic annotation, select Label.
- B. Create a label and use a formula to set it equal to the generic annotation label.
- C. Associate the nested family's parameter to a parameter in the electrical fixture family.
- D. Enable Shared in the generic annotation family and re-load it into the fixture family.

Antwort: C

Begründung:

In Revit, when a designer nests a Generic Annotation family (such as a receptacle symbol) inside an Electrical Fixture family, and that annotation includes a label, the label value cannot be changed directly in the project unless the parameter controlling that label is properly associated (linked) to a parameter in the host (electrical fixture) family.

According to Autodesk Revit Electrical Design documentation, under "Creating Family Parameter Links", it is explicitly stated:

"By linking family parameters, you can control the parameters of families nested inside host families from within a project view. You can control instance parameters or type parameters." The procedure describes the correct process to make the label value editable

in a project:

"Click the button next to a parameter that is of the same type as the one you created in Step 6. For example, if you created a text parameter, you must select a text parameter here. In the dialog that displays, select the parameter you created in Step 6 to associate it with the current parameter, and click OK."

"The nested family changes according to the value you entered."

This means that the designer must associate the nested family's label parameter (usually a text parameter controlling the annotation label) to a corresponding parameter in the host electrical fixture family. Once linked, this host parameter appears in the project's Properties palette, allowing the designer to change the label value directly.

Other options-such as creating formulas, modifying visibility, or enabling "Shared"-do not make the label editable in the project unless the parameter link is established.

40. Frage

What two ways can an electrical designer copy a cable tray type from a project to a template? (Select two.)

- A. 1. Open the project and the template In separate Revit sessions.
2. In the project, copy the cable tray to the clipboard.
3. Switch to the template and paste the cable tray in a view.
- B. 1. Open both the project and the template in the same Revit session.
2. In the project, select the cable tray and click Edit Family.
3. Click Load into Project and select the template to load the family into.
- C. 1. Open the project and the template in separate Revit sessions.
2. In the template, activate Transfer Project Standards.
3. Choose to copy from the project and then select Cable Tray Types.
- D. 1. Open both the project and the template in the same Revit session.
2. In the template, activate Transfer Project Standards.
3. Choose to copy from the project and then select Cable Tray Types.
- E. 1. Open both the project and the template in the same Revit session.
2. In the project, copy the cable tray to the clipboard.
3. Switch to the template and paste the cable tray in a view.

Antwort: D,E

Begründung:

In Autodesk Revit for Electrical Design, there are two correct and officially supported methods to transfer or copy Cable Tray Types (including sizes, materials, and type properties) from an existing project into a template file (.rte). These methods ensure that all type definitions, fittings, and related MEP settings are preserved.

☐ Option B (Clipboard Copy within the same Revit session)

1. Open both the project and the template in the same Revit session.
2. In the project, copy the cable tray to the clipboard.
3. Switch to the template and paste the cable tray in a view.

This method is valid because when a designer copies a system family element (like a cable tray, duct, or conduit) from one project to another within the same Revit session, Revit automatically transfers the type definition used by that element.

According to the Revit MEP User's Guide, Chapter 17 - Electrical Systems:

"Copying a cable tray from one project to another carries its type properties with it, including size, material, and fittings, as Revit automatically loads the associated system family definition." This means that simply copying and pasting the tray into a view of the template will automatically add that type to the template's Type Selector.

☐ Option C (Transfer Project Standards)

1. Open both the project and the template in the same Revit session.
2. In the template, activate Transfer Project Standards.
3. Choose to copy from the project and then select Cable Tray Types.

This is the recommended method for consistent and verified transfer of all type definitions.

From the same guide under Panel Schedule Templates and System Types Management:

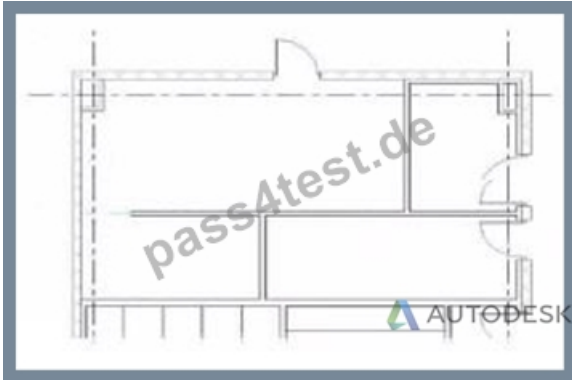
"Use Transfer Project Standards to copy system family types, such as Cable Tray Types, Conduit Types, and related MEP settings, between projects or into templates." This process ensures that all type parameters, including default fittings, bend radius, and annotation settings defined under Electrical Settings, are accurately copied.

References:

Autodesk Revit MEP User's Guide - Chapter 17 "Electrical Systems," pp. 407-409 (Cable Tray Management and Transfer Standards) Autodesk Revit MEP 2011 What's New - Section "Copy Styles Using Transfer Project Standards" Smithsonian Facilities Revit Template User's Guide - "Transferring MEP Types into Templates," pp. 68-71

41. Frage

Refer to exhibit.



In this linked architectural model, demolished walls are missing. The electrical designer teams from the architect that the walls have been placed in a phase that does not exist in the host model.

Which steps should the designer take to associate the architectural phases to their phases?

- A. Open Manage Links > Manage Phases
- **B. Select the link > Edit Type > Phase Mapping**
- C. Open Visibility Graphics > Revit Links > Display Settings
- D. Select Phases > Graphic Overrides

Antwort: B

Begründung:

In Autodesk Revit, when demolished walls or other elements from a linked architectural model are missing in the host model, the issue typically lies in phase inconsistency between the host and linked models. The architectural model may include elements created or demolished in phases that do not exist or are mismatched in the electrical model (the host). To resolve this, Revit allows users to map phases between the host and linked models through the Phase Mapping tool in the link's Type Properties dialog.

According to the Autodesk Revit MEP Electrical Design Guide (Linked Models Section, pp. 1282-1287), the official procedure is: "You can manually set up a correspondence between phases in the host model and phases in the linked model. To do this, you set up a phase map in the properties of the linked model, and then apply the phase map in the host model." (Revit MEP User's Guide, Chapter 53 - Linked Models, p. 1282) The step-by-step process is precisely described in the Revit documentation as follows:

To map phases in the linked model:

In the drawing area of the host model, select the linked Revit model.

Click Modify | RVT Links tab > Properties panel > Type Properties.

In the Type Properties dialog, find the Phase Mapping parameter and click Edit.

In the Phases dialog, select the appropriate mapping options for each phase, and click OK.

Click OK to exit the Type Properties dialog.

(Revit MEP User's Guide, p. 1287)

This procedure ensures that demolished or existing architectural elements display correctly according to the electrical model's phase structure. Without this mapping, Revit cannot interpret which linked phase corresponds to the host's "Existing" or "New Construction" phases, causing certain geometry-like demolished walls-to disappear from view.

Supporting Extracts from Revit for Electrical Design Study Documentation:

Linked Model Type Properties:

"To modify the type properties of a linked model, select the linked model in the drawing area, and click Modify | RVT Links tab > Properties panel > (Type Properties).

The Phase Mapping parameter allows you to set up a correspondence between phases in the host model and phases in the linked model." (Revit MEP 2011 User's Guide, p. 1305) Phases and Linked Models Concept:

"When you link a Revit model that has more than one phase, phases in the host model automatically map to phases in the linked model. When this initial mapping occurs, Revit maps phases by matching phase names.

You can manually set up a correspondence between phases in the host model and phases in the linked model using the Phase Mapping function." (Revit MEP 2011 User's Guide, p. 1282) Phase-Specific Room and Element Display:

"If phase-specific elements in a linked model do not reflect correctly, check phase mapping for the linked model. If automatic mapping does not give the desired result, map phases manually between projects." (Revit MEP 2011 User's Guide, p. 710)

Conclusion:

Therefore, to fix the issue where demolished walls are missing in a linked architectural model, the electrical designer must perform manual phase mapping between the architectural model and the host electrical model. This is done by selecting the linked file, opening its Type Properties, and editing the Phase Mapping parameter.

42. Frage

An electrical designer has created a family and loaded it into the project. The designer wants to connect the family to a power circuit but the Power icon is not available when the family is selected. How should the designer fix the problem?

- A. Set the family parameter to Shared.
- **B. Add an electrical connector to the family.**
- C. Change the Voltage parameter value to non-zero.
- D. Set the distribution system for the family.

Antwort: B

43. Frage

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

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

Antwort: B

Begründung:

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.

44. Frage

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