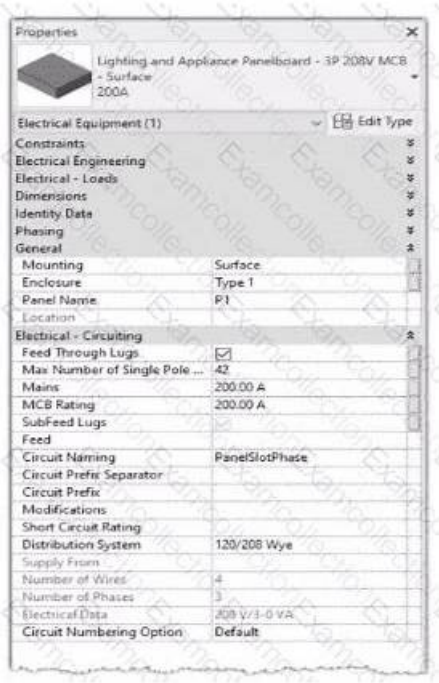
RVT_ELEC_01101 Übungsmaterialien & RVT_ELEC_01101 Antworten



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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	• 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 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	• 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 Antworten, RVT_ELEC_01101 Pruefungssimulationen

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Autodesk Certified Professional in Revit for Electrical Design RVT_ELEC_01101 Prüfungsfragen mit Lösungen (Q64-Q69):

64. 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. Enable Shared in the generic annotation family and re-load it into the fixture family.
- 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. In the Visibility Settings for the nested generic annotation, select Label.

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.

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

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

Antwort: B

Begründung:
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.

66. Frage
Refer to exhibits.
An electrical designer models an existing receptacle on an existing wall that the architect has indicated to be demolished.
The view is intended to show demolition, and the view's Phase is set to New Construction. How should the designer indicate that the receptacle must also be demolished?

- A. Add a Demolition phase, then set the receptacle parameter Phase Demolished to Demolition.
- B. Set the receptacle parameter Phase Demolished to Demolition.
- C. Set the receptacle parameter Phase Demolished to New Construction.
- D. Set the receptacle's type parameter Match Phasing to Host.

Antwort: C

Begründung:
In Autodesk Revit, phasing allows designers to track existing, demolished, and new elements across different project stages. Every model element includes two key phasing parameters:
Phase Created - defines when the element was built or introduced.
Phase Demolished - defines when the element is removed or demolished.
In the provided exhibits:
The project contains two phases: Existing and New Construction.
The receptacle's Phase Created parameter is set to Existing, indicating it belongs to the pre-existing building condition.
The architectural wall hosting the receptacle is to be demolished during New Construction.
When a view's Phase is set to New Construction and its Phase Filter is configured to show demolition, only elements whose Phase Demolished equals New Construction will appear as to be demolished. Therefore, the electrical designer must set the receptacle's Phase Demolished value to New Construction so that it graphically displays as a demolished element in the demolition plan.

As explained in the Autodesk Revit MEP User's Guide - Phasing and Coordination:
"Elements created in one phase and demolished in a subsequent phase must have their 'Phase Demolished' parameter set to that later phase to display properly in demolition views." Thus, to correctly coordinate with the demolition of its host wall, the receptacle must be flagged for demolition during New Construction.

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

Antwort: A,E

Begründung:
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.

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

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

Antwort: A

Begründung:
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

69. Frage
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