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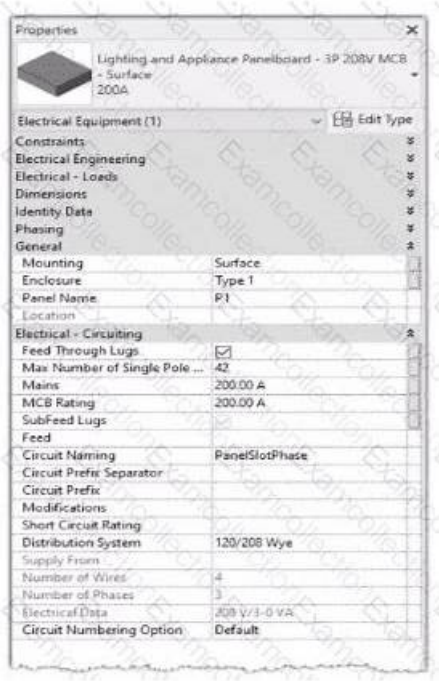

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In addition to our RVT_ELEC_01101 exam questions, we also offer a Autodesk Practice Test engine. This engine contains real RVT_ELEC_01101 practice questions designed to help you get familiar with the actual Autodesk Certified Professional in Revit for Electrical Design (RVT_ELEC_01101) pattern. Our Autodesk Certified Professional in Revit for Electrical Design (RVT_ELEC_01101) exam practice test engine will help you gauge your progress, identify areas of weakness, and master the material.

Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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.
Topic 2	• 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.
Topic 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.
Topic 4	• 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.
Topic 5	• 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.

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q51-Q56):

NEW QUESTION # 51
A project is almost at the end of design. The electrical designer needs to make sure electrical loads as reported by load summaries accurately reflect all modeled loads. How should a designer view a list of all modeled electrical connectors that are not connected to a circuit?

- A. Create a circuit schedule.
- B. Use the command Check Circuits.
- C. Use the command Show Disconnects.
- D. Review the System Browser.

Answer: C

Explanation:
In Autodesk Revit Electrical Design, ensuring that all electrical connectors are properly connected to circuits is critical to obtaining accurate load summaries and panel schedules. When nearing project completion, designers must confirm that every load (e.g., lighting fixture, power receptacle, or equipment) is associated with a circuit.
The Show Disconnects command is specifically designed to identify any electrical components whose connectors are not associated with a circuit or power system.
According to the Autodesk Revit MEP User's Guide (Chapter: Electrical Systems - Checking Electrical Circuits):
"The Show Disconnects tool allows designers to visually identify elements in a project that contain electrical connectors not currently assigned to any circuit. Using this tool, Revit highlights unconnected components, helping to ensure load summaries and panel schedules accurately reflect all modeled elements." The command is found under Analyze tab ➤ Electrical panel ➤ Show Disconnects. It highlights any devices-such as lighting fixtures, receptacles, or equipment-that are not circuited, enabling correction before final load calculations are performed.
Other options explained:
A . Check Circuits: Verifies that existing circuits are complete, but it does not identify unconnected components.
B . System Browser: Lists systems hierarchically but does not flag disconnected devices.
C . Circuit Schedule: Displays circuit data only for connected components.
Hence, to identify unconnected elements before finalizing design documentation, the correct tool is Show Disconnects.
References:
Autodesk Revit MEP 2011 User's Guide, Chapter 45: Analyzing Electrical Circuits, pp. 1034-1036.
Autodesk Revit 2020 Help, "Show Disconnects - Identify Elements Not Assigned to Circuits."

NEW QUESTION # 52
Refer to exhibit.
(The image is presented in Imperial units: 1 In = 25 mm (Metric units rounded).)
In the space properties for the space, the Lighting Calculation Luminaire Plane is Not Computed. What is causing this issue?

- A. The lights in this space are not circuited.
- B. Lights are at different elevations in the same space.
- C. No lights are placed in the space.
- D. The lighting fixtures are missing an IES file.

Answer: C

Explanation:
The parameter "Lighting Calculation Luminaire Plane: Not Computed" in the Space Properties dialog appears when Revit cannot perform a lighting calculation because no valid lighting fixtures are present within that defined space.
According to the Autodesk Revit MEP User's Guide (Chapter: Spaces and Lighting Analysis):
"Lighting calculations are performed based on the luminaire data available in the space. If no light fixtures are present, the parameter 'Lighting Calculation Luminaire Plane' displays as 'Not Computed'. Revit requires at least one hosted or ceiling-mounted lighting fixture with a valid light source to calculate illumination." In this case, although the space has defined reflectance values (ceiling, wall, and floor) and a lighting calculation workplane height (2'-6"), Revit cannot compute the Luminaire Plane because the software has no lighting geometry to reference for the photometric analysis.
Explanation of incorrect options:
A . Missing IES file: This would cause inaccurate photometric output, but not "Not Computed." C . Lights not circuited: Circuiting affects load summaries, not lighting calculations.
D . Lights at different elevations: Revit still computes the average luminaire plane even with varied fixture heights.
Thus, the lighting calculation is not computed simply because no lighting fixtures are placed in the space.
References:
Autodesk Revit MEP 2011 User's Guide, Chapter 46: Spaces and Lighting Analysis, pp. 1064-1068.
Autodesk Revit 2021 Electrical Design Guide, Lighting Analysis Parameters.
Smithsonian Facilities Revit Template User's Guide (2021), Section 8.7 - Lighting Performance Parameters in Spaces.

NEW QUESTION # 53
An electrical designer wants to add a parameter to a lighting fixture schedule without editing the families. Which parameter type should the designer use?

- A. Schedule parameter
- B. Family parameter

- C. Global parameter
- D. Project parameter

Answer: D

Explanation:
In Revit Electrical Design workflows, when a designer wishes to add a parameter to a lighting fixture schedule without editing the families themselves, the proper approach is to use a Project Parameter.
The Revit MEP documentation clearly explains:
"To add a custom field to a schedule, you can create a custom parameter using the Parameter Properties dialog. Under Parameter Type, select Project parameter." This method links the parameter directly to the project and to all instances of the specified category (in this case, Lighting Fixtures), allowing it to appear in the schedule automatically without requiring any modification to the family files (.RFA).
In contrast:
Family Parameters apply only within the family file and are not schedulable across multiple families.
Global Parameters control dimensional or relational constraints, not schedule data.
Reporting Parameters are read-only and extract model information; they cannot be manually added to schedules.
Revit's scheduling workflow defines this process:
"On the Fields tab of the Sheet List Properties dialog, click Add Parameter... Under Parameter Type, select Project parameter."
This same mechanism applies to lighting fixture schedules, as schedules and sheet lists share parameter structures in Revit. The new project parameter can then be sorted, filtered, and displayed in the schedule view for documentation or tagging purposes.
References:
Autodesk Revit MEP User's Guide - Chapter 49 "Preparing Construction Documents," pp. 1126-1128 Autodesk Revit Parameters Overview - "Project Parameters" and "Shared Parameters," pp. 1541-1543 Autodesk Revit Electrical Design Essentials - Schedule and Parameter Management Section

NEW QUESTION # 54
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. GFCI. Standard
- B. Above Counter. Plain. Standard
- C. Above Counter. Standard
- D. Above Counter. GFCI. Plain. Standard

Answer: A

Explanation:
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

NEW QUESTION # 55
Refer to exhibit.
A panelboard has the following properties:
The Circuit Naming Scheme PanelSlolPhase. which defines the value of the Circuit Number parameter, is configured as follows:
In electrical settings. Phase Labels have not been modified from the default "A." "B." and "C- The Circuit Number lot a single-pole circuit in the panelboard's first breaker position is----------(Enter the correct value into the field)

Answer:

Explanation:
See the explanation
Explanation:
The answer is P1/1/A
In Autodesk Revit Electrical Design, the Circuit Number for a branch circuit in a panelboard is automatically generated based on the Circuit Naming Scheme specified in the project's Electrical Settings. This naming scheme defines how each circuit is labeled by combining predefined fields such as Panel Name, Slot Index, and Phase Label.
From the exhibit, the Circuit Naming Parameter setup is configured as:
Name
Prefix
Sample Value
Suffix
Separator
Panel
Panel
Panel
-
"-"
Slot Index
Slot Index
Slot Index
-
"/"
Phase Label
Phase Label
Phase Label
-
-
The panelboard properties show that its Circuit Naming method is set to PanelSlotPhase, which means that Revit will generate circuit numbers using the following structure:
[Panel Name] - [Slot Index] / [Phase Label]
From the exhibit:
Panel Name: P1
Slot Index (Breaker Position): 1 (since the question refers to the first breaker position) Phase Label: A (default value for the first phase in a three-phase 120/208V Wye system) Therefore, the Circuit Number for a single-pole circuit in the first breaker slot will be:
 P1-1/A
This follows Revit's documented logic for circuit naming. According to the Autodesk Revit MEP User's Guide (Chapter 17 "Electrical Systems"):
"The circuit numbering format is controlled by the Electrical Settings > Circuit Naming template. The default scheme combines panel name, circuit number, and phase label, using the separators defined by the user." Furthermore, the Smithsonian Facilities Revit Template User's Guide confirms:
"In the default electrical configuration, circuit numbers use the format [Panel Name]-[Circuit Number]/[Phase], such as 'P1-1/A' for the first single-pole circuit on phase A." Hence, based on the provided configuration and standard electrical setup, the correct circuit

number for the first single-pole breaker position in panelboard P1 is P1-1/A.
References:
Autodesk Revit MEP User's Guide - Chapter 17 "Electrical Systems," pp. 420-427 Smithsonian Facilities Revit Template User's Guide - Section 8.6 "Panel Schedules and Circuit Naming Schemes," p. 90 Autodesk Revit Electrical Design Essentials - "Circuit Naming Rules and Panel Configuration Standards"

NEW QUESTION # 56
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