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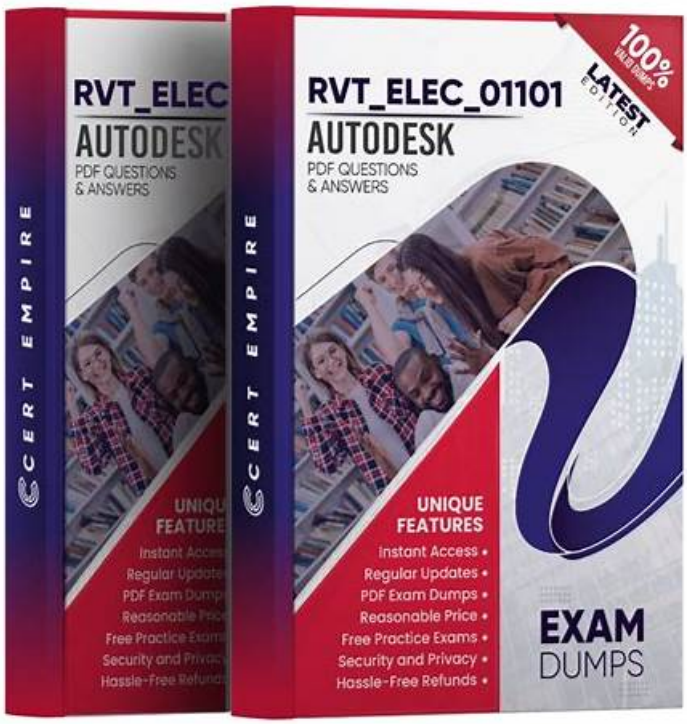

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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 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.
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	• 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.

Topic 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.
Topic 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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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q45-Q50):

NEW QUESTION # 45
Refer to exhibit.
An electrical designer wants to place electrical equipment on the pad.
How should the component be aligned to the pad before placement?

- A. Start the Align tool and select the edges to be aligned.
- B. Place the cursor anywhere over the object and then press Spacebar.
- C. Start the Align tool. tab to select the object edge, and then select the equipment edge.
- D. Place the cursor over an edge of the object and then press Spacebar.

Answer: D

Explanation:
In Autodesk Revit, when placing electrical equipment such as transformers, disconnects, or switchboards onto a pad or foundation, precise alignment is essential for accurate coordination with architectural and structural elements. During component placement, Revit provides an intuitive way to align an object before final placement using the Spacebar in combination with the object's edges.
When the cursor is hovered over an edge of the component (not just anywhere on it) and the Spacebar is pressed, Revit cycles the component's orientation, rotating it 90 degrees around its insertion point each time. This technique allows the designer to visually align the equipment's orientation with the pad or architectural geometry before clicking to place it.
According to the Autodesk Revit MEP User's Guide under "Placing and Modifying Components":
"While placing a component, move the cursor over an edge and press the Spacebar to rotate the element incrementally. This method helps align electrical or mechanical equipment with nearby reference geometry before placement." This method is ideal for electrical designers positioning pad-mounted equipment, ensuring that components such as transformers or switchgear are oriented precisely to site geometry, conduit routes, or building walls.

NEW QUESTION # 46
An electrical designer needs to directly connect panel B to panel A without a breaker. Panel A's load must reflect the entire load from panel B. Which conditions must be met to ensure that panel B is correctly connected to panel A?

- A. Both panels are connected via a transformer, and the connection type is set to feed through lugs.
- B. Both panels are assigned to the same distribution system, and the connection type is set to feed through lugs.
- C. Both panels are assigned to the same switchboard, and the subfeed lug breaker option is selected.
- D. Both panels are assigned to the same distribution system, and the circuit subfeed panel type option is selected.

Answer: B

Explanation:
In Autodesk Revit Electrical Design, when an electrical designer needs to directly connect Panel B to Panel A without a breaker-such that Panel A's load includes the total load from Panel B-the correct method is to configure both panels to use the same distribution system and to set Panel B's connection type to Feed Through Lugs.
According to the Autodesk Revit MEP User Guide, Chapter 17: Electrical Systems, under "Creating Power and Lighting Circuits" and "Panel Properties" sections:
"When connecting panels in series, ensure both devices share the same distribution system. If a subpanel is required to pass its total load through to another panel without circuit protection, specify the connection type as Feed Through Lugs. This connection allows the upstream panel to include the total connected load from the subpanel in its own load summary." The feed-through lugs configuration enables the second panel (Panel B) to be electrically tied to the first (Panel A) as though it were an extension of the same bus. Unlike breaker or main-lug-only setups, the feed-through configuration does not insert a protective breaker between the two panels. Instead, it provides a continuous feeder connection where the parent panel's load schedule automatically aggregates the downstream panel's total load.
This setting is found in Revit's Properties Palette for electrical equipment:
Under Electrical - Circuiting, the designer must ensure both panels use the same Distribution System (e.g., 208Y/120V 3 4W).
Then, under Connection Type, select Feed Through Lugs.
The Smithsonian Facilities Revit Template Electrical Standards Guide also confirms this best practice:
"Feed-through panels are used when a subpanel's total load must be reported in the main distribution panel without additional breakers. Both panels must share identical voltage and phase configurations within the same distribution system." Why the Other Options Are Incorrect:
A . The "subfeed lug breaker" introduces a breaker, contradicting the requirement of no breaker.
B . "Circuit subfeed panel type" is not a standard Revit configuration; Revit uses connection types instead.
D . Transformers alter the voltage distribution; the question specifies a direct connection within the same system.
Therefore, the correct configuration that meets all design and load reflection requirements is:
 C. Both panels are assigned to the same distribution system, and the connection type is set to feed through lugs.
References:
Autodesk Revit MEP User Guide - Chapter 17 "Electrical Systems," Sections: "Creating Power and Lighting Circuits" and "Panel Properties," pp. 420-426 Autodesk Revit Electrical Design Essentials - Topic: "Feed-Through Connections and Subpanel Load Reflection" Smithsonian Facilities Revit Template User's Guide - Section 9.3 "Panel Configuration and Feed-Through Connections," p. 96

NEW QUESTION # 47
An electrical designer receives an architectural model and links it into the electrical model.
The designer wants to use the Copy/Monitor tool to copy the exact electrical fixtures created by the architect.
The designer also wants the software to automatically detect new electrical fixtures added to the architectural model.
Select the correct coordination settings from the drop-down lists

Answer:

Explanation:

NEW QUESTION # 48
Refer to exhibit.
Which two actions were used to create this light fixture schedule? (Select two.)

- A. Added both electrical and switch system settings.
- B. Filtered to only show lights that have a type mark value.
- C. Sorted by instance and quantity.
- D. Sorted by type mark.
- E. Deselected Itemize every instance.

Answer: D,E

Explanation:
In the given Lighting Fixture Schedule, each row represents a lighting fixture type rather than individual instances, and the "Count" column summarizes how many fixtures of that type exist in the project. To achieve this layout in Revit, two specific actions must be performed in the Schedule Properties dialog:
Deselected "Itemize every instance."
The Revit documentation explains:
"Itemize every instance. This option displays all instances of an element in individual rows. If you clear this option, multiple instances collapse to the same row based on the sorting parameter. If you do not specify a sorting parameter, all instances collapse to one row." By deselecting this checkbox, Revit consolidates identical fixture instances of the same type into a single row - exactly as shown in the exhibit, where each "Type Mark" (A, B, C, etc.) appears once with a summarized Count.
Sorted by Type Mark.
On the same Sorting/Grouping tab, Revit allows users to organize the schedule by a specific field:
"On the Sorting/Grouping tab of the Schedule Properties dialog, you can specify sorting options for rows in a schedule... You can sort by any field in a schedule, except Count." In the example, fixtures are sorted alphabetically by their "Type Mark" (A through E). This ensures the grouped and counted results appear in order.
Other options-such as filtering by type mark or adding switch data-do not impact how instances collapse or group within the schedule.

NEW QUESTION # 49
Which Revit command is used to map a Keynote Table file?

- A. Element Keynote
- B. Keynote Manager
- C. Keynote Legend
- D. Keynoting Settings

Answer: D

Explanation:
The correct command in Revit used to map (assign or browse to) a Keynote Table file is Keynoting Settings.
In Revit, keynotes are driven by an external keynote table, typically a tab-delimited TXT file that must be assigned (mapped) in the project so keynote tags can read values correctly. The official Autodesk Revit MEP documentation clearly identifies that the Keynoting Settings dialog is where this mapping is performed.
From the documentation:
To access the Keynoting Settings dialog, the instructions state:
"click Annotate tab ➤ Tag panel drop-down ➤ (Keynoting Settings)."
Regarding keynote table file location mapping:
"Keynote Table - Full Path displays the entire path of the keynote file... Saved Path displays the file name of the keynote file that is loaded." It goes further to explain file path types:
"Absolute identifies a specific folder... Relative finds the keynote file where the project file... is located... At Library Locations finds the keynote file where the stand-alone installation or network deployment specified." The command is explicitly referenced again when fixing a missing mapping:
"Unable to Load Keynote data. Check keynote table locations in Keynoting Settings."
"To specify the location of the keynote text file... click (Keynoting Settings)." Other listed options do not perform keynote file mapping:
Keynote Manager does not exist as a command in native Revit.
Element Keynote is a tagging method.
Keynote Legend only displays already-mapped keynote information.

NEW QUESTION # 50
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