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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	• 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	• 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	• 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.

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q63-Q68):

NEW QUESTION # 63
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?

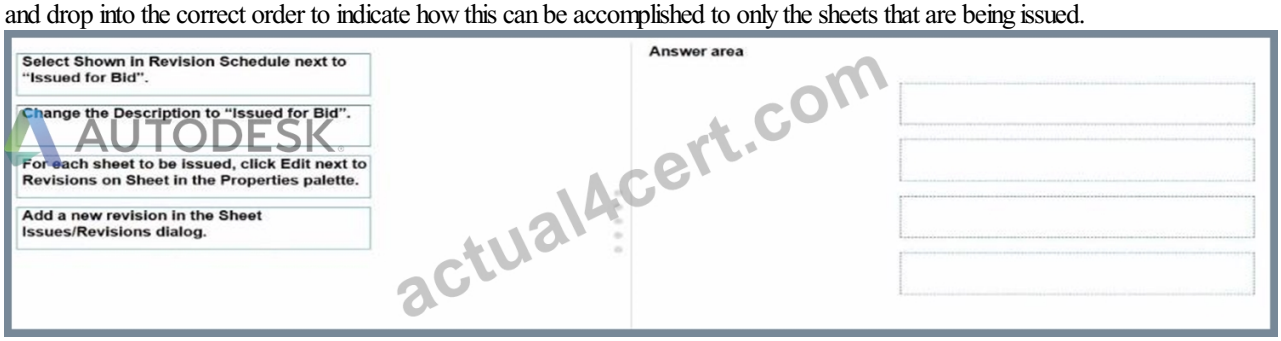
- A. Change the architectural model display settings to By Host View,
- B. Select Room Bounding from the architectural link's type properties.
- C. Select Save Positions for the architectural links in the Manage Links dialog.
- D. Use Transfer Project Standards to Import rooms from the architectural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

Answer: B

Explanation:
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.

NEW QUESTION # 64
Refer to exhibit.

An electrical designer is issuing several sheets and wants 'Issued for Bid" to appear in the revision schedule of the title block. Drag and drop into the correct order to indicate how this can be accomplished to only the sheets that are being issued.



Answer:

Explanation:

NEW QUESTION # 65

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

Answer: D

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.

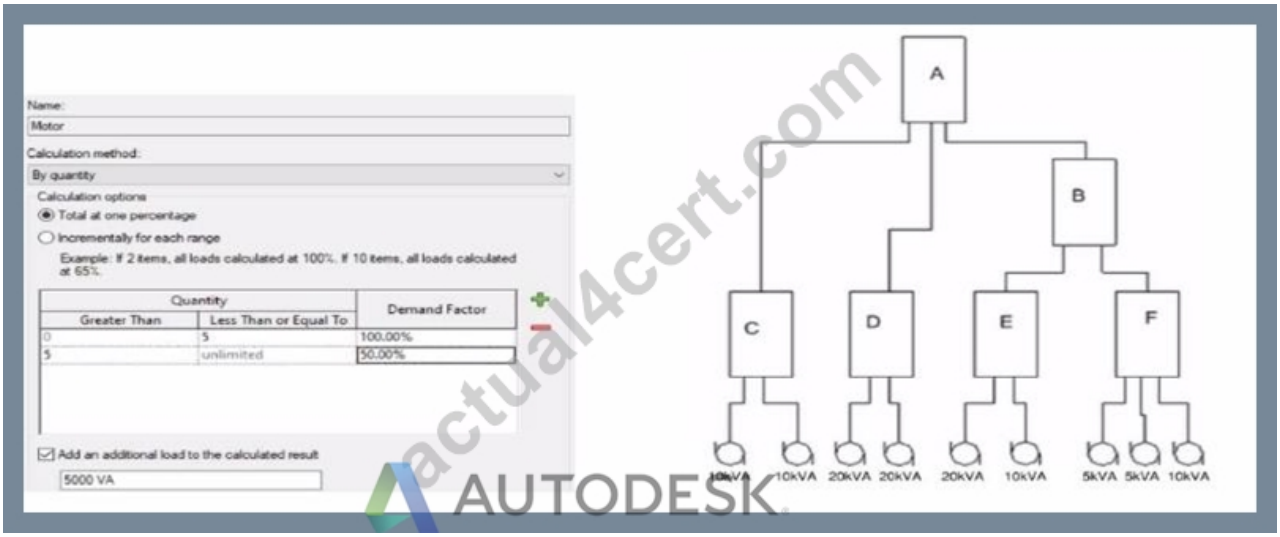
This setting is found in Revit's Properties Palette for electrical equipment:

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 # 66
Refer to exhibits.



What is the demand load on Panel B?

- A. 55kVA
- B. 65kVA
- C. 40kVA
- D. 30kVA

Answer: A

Explanation:
In Revit Electrical, Demand Factors are applied through Load Classifications to compute an Estimated Demand Load rather than simply summing connected loads. The documentation states: "You use demand factors to adjust the rating of the main service... Demand factors are assigned to load classifications, and load classifications are assigned to device connectors. The estimated load for a device is calculated by multiplying the load by the demand factor. ... The panel schedule can also display the load for each load classification." In the exhibit's Demand Factor definition (for the Motor classification), the Calculation method is By quantity with Total at one percentage selected. Two quantity ranges are defined: 0-5 items at 100% and 5-unlimited at 50%. An additional checkbox adds an extra fixed load of 5000 VA to the calculated result. (This follows Revit's behavior of applying the selected demand factor to the connected load and then adding any specified additional load to the result for that classification.) Panel B feeds only panels E and F. The connected motor loads downstream are:
Panel E: 20 kVA + 10 kVA = 30 kVA
Panel F: 5 kVA + 5 kVA + 10 kVA = 20 kVA
Total connected motor load on B = 30 + 20 = 50 kVA (five items).
Because five items fall in the 0-5 range at 100%, the demand factor is 100% → 50 kVA. Per the definition, add an additional load of 5000 VA (5 kVA) to the calculated result:
Demand Load on Panel B = 50 kVA × 100% + 5 kVA = 55 kVA.
Therefore, the correct choice is 55 kVA.

References: Revit MEP Electrical documentation - Demand Factors (assignment to load classifications, multiplication to compute estimated load, and display in panel schedules).

NEW QUESTION # 67
An electrical designer needs to add a drafting view to a model from another project. What is the method to do this?

- A. Select Transfer Project Standards, select the desired project, and then select the drafting view.
- B. Select Open, select the desired project, right-click the desired drafting view, and then copy/paste
- C. Select Insert from File, select Insert Views from File, browse to the desired project, and then select the drafting view.
- D. Select Link Revit, browse to the desired model, and then select desired drafting view

Answer: C

Explanation:
In Autodesk Revit, a drafting view is a 2D view that contains detail information not directly associated with the model. When an electrical designer needs to reuse a drafting view from another project (for example, standard details or symbols), the correct method is to use the Insert Views from File command under the Insert tab.
The Autodesk Revit MEP User's Guide - Chapter 48 "Detailing" (page 1072) describes the process as follows:
"Inserting a Drafting View from Another Project
Click Insert tab ➢ Import panel ➢ Insert from File drop-down ➢ Insert Views from File.
In the Open dialog, select a project file, and click Open.
The Insert Views dialog opens, displaying all the views that are saved in that project.
Select the desired drafting views and click OK."
(Revit MEP User's Guide, p. 1072)
This command imports the drafting view into the current Revit model while preserving annotations, filled regions, detail components, and text. It ensures that any standard electrical symbols, notes, or schematics created previously can be directly reused without rebuilding the detail from scratch.
If any duplicate type names exist, Revit automatically uses the types and properties from the current project, displaying a warning if necessary.
"Revit MEP creates a new drafting view with all the 2D components and text. If you have duplicate type names, the type name and properties from the current project are used." (Revit MEP User's Guide, p. 1072) Supporting Documentation Extracts:
"Saving Drafting Views to an External Project
Select a drafting view in the Project Browser.
Right-click the view name, and click Save to New File."
(Revit MEP User's Guide, p. 1071)
"The saved project can then be used later to insert drafting views into another Revit project using Insert Views from File." (Revit MEP User's Guide, p. 1072)

NEW QUESTION # 68
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