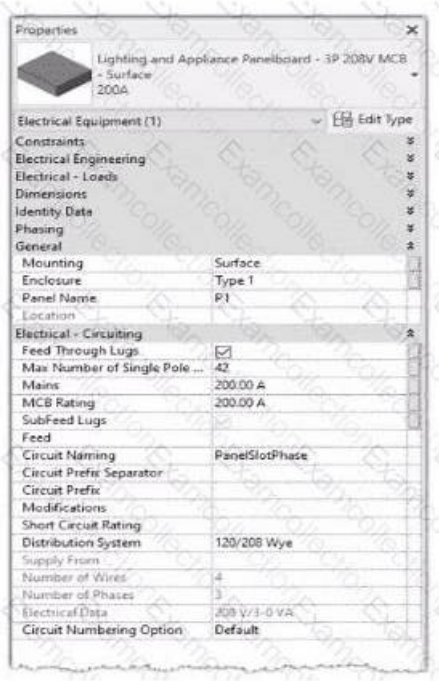
Autodesk RVT_ELEC_01101 Web-Based Practice Test Questions



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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 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	• 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.

Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q39-Q44):

NEW QUESTION # 39
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. Review the System Browser.
- D. Use the command Show Disconnects.

Answer: D

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 # 40
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 template, activate Transfer Project Standards.
  3. Choose to copy from the project and then select Cable Tray Types.
- B. 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.
- C. 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.
- D. 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.
- E. 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.

Answer: B,D

Explanation:
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

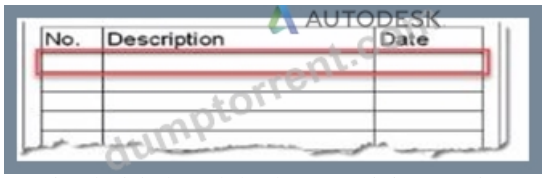
NEW QUESTION # 41
An electrical designer needs to directly connect panel B to panel A without a breaker. Panel A's load must reflect the entire load from panel B. Which conditions must be met to ensure that panel B is correctly connected to panel A?

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

Answer: A

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

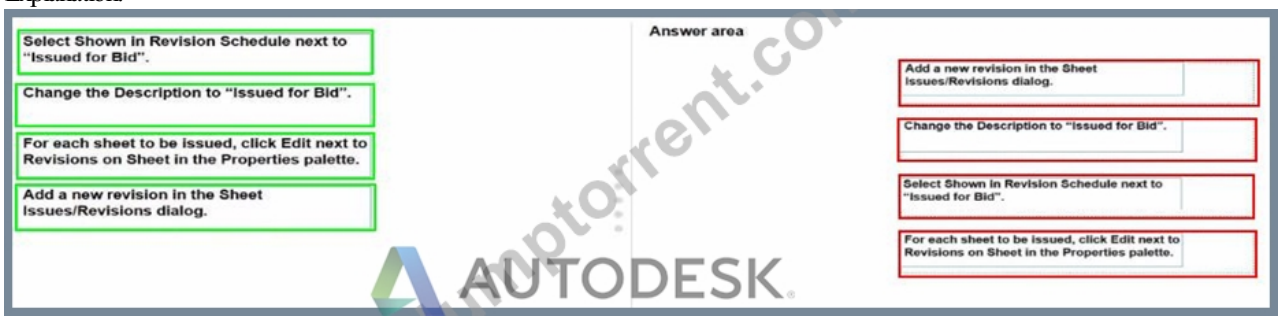
NEW QUESTION # 42
Refer to exhibit.



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 # 43
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. Start the Align tool. tab to select the object edge, and then select the equipment edge.
- C. Place the cursor anywhere over the object and then press Spacebar.
- 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 # 44
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