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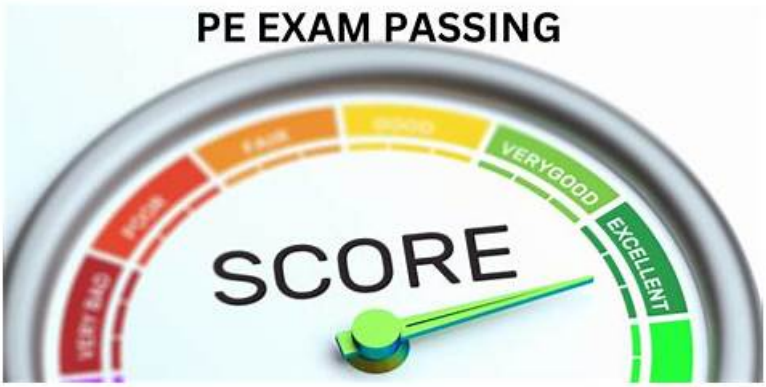

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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 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.
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	• 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 4	• 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 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 (Q17-Q22):

NEW QUESTION # 17
Exhibit.
An electrical designer creates a panel schedule. Which Electrical Equipment parameter defines the default name of the panel schedule view?

- A. Description
- B. Mark
- C. Panel Name
- D. Type Mark

Answer: C

Explanation:
In Autodesk Revit for Electrical Design, when a designer creates a panel schedule, the default name of the panel schedule view is automatically derived from the Panel Name parameter of the Electrical Equipment family to which the circuits are assigned.
According to the Revit MEP User's Guide (Electrical Systems section: Panel Schedules):
"When you create a panel schedule, Revit uses the Panel Name parameter of the electrical equipment to define the default schedule name. The Panel Name identifies the distribution panel that supplies the circuits. This name appears in both the Panel Schedule view and in circuit information tags."
- Revit MEP User's Guide, Chapter 17: Electrical Systems - Panel Schedules The Panel Name is a critical electrical equipment instance parameter located in the Electrical - Circuiting group of properties.
It appears in both the Electrical Equipment Properties Palette and the Panel Schedule Header. This name can later be modified manually, but by default, it directly controls the naming convention of the generated schedule.
In contrast:
A . Type Mark - identifies types within the family for documentation and does not control schedule naming.
B . Mark - a unique instance identifier often used for tags, but not for panel schedule view naming.
C . Description - provides descriptive text only for documentation or labeling.
D . Panel Name - correctly defines and drives the default schedule view name for panels and circuits.
When a panel (electrical equipment) is placed in the model and circuits are connected, Revit generates a new Panel Schedule View automatically titled using the value entered in the Panel Name field (e.g., "Panel LP-1"). This ensures consistency between the modeled equipment and the schedule documentation.
Verified Reference Extracts from Revit for Electrical Design Documentation:
Autodesk Revit MEP User's Guide (2011), Chapter 17: Electrical Systems - Creating and Editing Panel Schedules:
"The name of the panel schedule view is determined by the Panel Name property of the electrical equipment." Revit MEP Electrical Design Training Manual, Module: Electrical Equipment and Panel Schedules:
"Panel Name is used by Revit as the default identifier for any panel schedule view created for that equipment."

NEW QUESTION # 18
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. Model Updates
- B. Owners
- C. Gray Inactive Worksets
- D. Worksets
- E. Checkout Status

Answer: B,E

Explanation:
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.

NEW QUESTION # 19
Refer to exhibit.
An electrical designer expects the total connected load on the switchboard to be 4000VA. but Revit Indicates a total connected load of 3606VA. What Is the cause of the discrepancy?

- A. Load is connected through the switchboard's feed through lugs.
- B. The connected loads are set to a different voltage than the switchboard.
- C. The Motor demand factor is configured to adjust the connected load.
- D. Sum true load and reactive load is selected in Electrical Settings.

Answer: C

Explanation:
In the exhibit, the designer expects the total connected load to equal the sum of the 4 motor loads:
4 motors × 1000 VA each = 4000 VA expected
However, Revit is showing a Total Connected Load of 3606 VA instead.
This difference occurs because Revit applies Motor Demand Factors automatically when a load classification is set to "Motor."
Demand factors modify the total connected load based on electrical engineering rules.
Revit documentation confirms:
"Assign demand factors to load classifications."
"Demand loads can be shown on panel schedules."
In the exhibit, the Load Classification shows Motor with a Demand Factor of 117.87%, which modifies the connected load values in the switchboard totals.
Revit is therefore calculating the effective connected load based on the applied demand factor, not a simple arithmetic sum. That is why the panel's connected load number ≠ 4000 VA.

NEW QUESTION # 20
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 # 21
What should an electrical designer do to associate a lighting device with light fixtures in a model?

- A. Create a switch system using the light fixtures to define the system and add the switch.
- B. Create an electrical circuit using the light fixtures to define the system and add the switch.
- C. Create a switch system by selecting a switch and then adding lights
- D. Create an electrical circuit including the light fixtures and switch as one selection.

Answer: C

Explanation:
In Autodesk Revit Electrical Design, a lighting device (switch) must be associated with lighting fixtures through a switch system, not through electrical circuits. Switch systems are independent of lighting circuits and wiring, as they are intended to represent the control relationship between a light switch and the lighting fixtures it operates.
According to the Autodesk Revit MEP User's Guide (Chapter 17 - Electrical Systems, pages 475-478), the official method is described under "Creating a Switch System."
"You can assign lighting fixtures to specific switches in a project.
The switch system is independent of lighting circuits and wiring."
(Revit MEP User's Guide, p. 475)
"To create a switch system:
Select one or more lighting fixtures in a view, and click
Modify | Lighting Fixtures tab ➤ Create Systems panel ➤ Switch.
Click Switch Systems tab ➤ System Tools panel ➤ Edit Switch System.
Click Add to System, and select one or more lighting fixtures.
Click Select Switch, and select a switch in the drawing area.
Click Finish Editing System."**
(Revit MEP User's Guide, p. 476)
How It Works:
The switch system links a lighting device (switch) with lighting fixtures, enabling Revit to manage how light fixtures respond to specific switches.
Unlike electrical circuits, which define power flow and load connections to panels, the switch system defines control logic (which lights are turned on/off by which switch).
The designer begins by selecting the switch and then adding lights to its system, ensuring all lights associated with that switch are grouped correctly.
Supporting Extract from Revit Documentation:
"You can also create a lighting switch system by right-clicking the connector for a lighting fixture and clicking Create Switch System."
(Revit MEP User's Guide, p. 475)
"Add lighting fixtures to the switch system...
Click Select Switch and select a switch in the drawing area."
(Revit MEP User's Guide, p. 476)
"The switch system is independent of lighting circuits and wiring."
(Revit MEP User's Guide, p. 475)
Conclusion:

To associate a lighting device (switch) with light fixtures in a Revit electrical model, the designer must create a switch system. This is done by selecting the switch, then adding the desired lighting fixtures to that system using the Add to System and Select Switch tools under the Switch Systems tab.

NEW QUESTION # 22

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