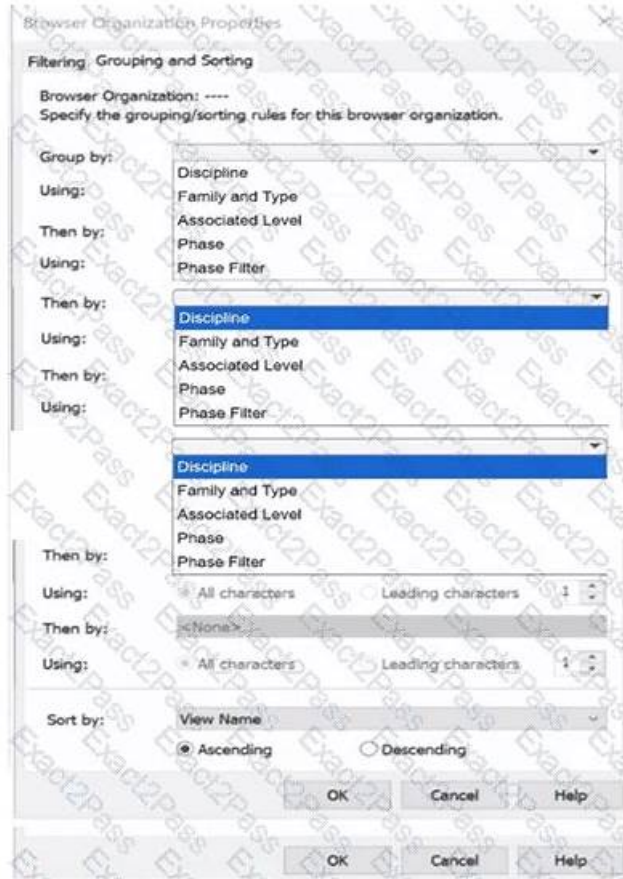


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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> • 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 3	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q31-Q36):

NEW QUESTION # 31

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

Answer: A

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 # 32

Refer to exhibit.

An electrical designer is working on an Electrical Device Panel-Circuit tag. The designer tags a receptacle using the tag properties shown in the exhibit. The receptacle is assigned to panel P203 and circuit 2.4. Which option shows the correct tag?

- A.
- B.
- C.
- D.

Answer: A

Explanation:

In the exhibit, the Label Parameters for the electrical device tag are configured as follows:

This setup determines how the tag will display in Revit when applied to any device. Specifically:

The Panel parameter (P203 in this case) will be shown first.

A "/" separator follows because it's assigned as the suffix for the Panel parameter.

The Circuit Number (2,4) is displayed immediately after the slash, with no extra spaces or line breaks.

Since the Break column is unchecked, the values will appear on one continuous line, not split across lines.

Revit documentation for tag creation confirms this behavior:

"When defining label parameters in a tag family, the Prefix and Suffix fields control text that appears before or after the parameter value, while the Break checkbox controls whether the text wraps to a new line." Therefore, when the tag is applied to a receptacle on panel P203 and circuit 2,4, the final formatted text will be:

P203/2,4

This corresponds exactly to option B, where the panel and circuit appear on the same line separated by a slash, with no spaces or line breaks.

NEW QUESTION # 33

Refer to exhibit.

An electrical designer is reviewing the Type Properties for a floor plan view. How will the view behave when creating a new floor plan?

- A. The Electrical Plan view template will be assigned to a new floor plan view created with the Floor Plan tool with the Floor Plan type selected
- B. Creating a new floor plan view using the Floor Plan tool with the Floor Plan type selected will create a new Electrical Plan view template.
- C. A new floor plan view created by duplicating a floor plan view of the Floor Plan type will be duplicated as a dependent view.
- D. When duplicating a floor plan view of any type, the Electrical Plan view template will be assigned to the new floor plan view.

Answer: A

Explanation:

The exhibit shown displays the Type Properties dialog box for a System Family: Floor Plan view type. Within the "Identity Data" group, there are two critical parameters that govern the behavior of new views created from this view type:

"View Template applied to new views"

"New views are dependent on template"

According to Autodesk Revit's documentation in the Revit MEP User's Guide (Chapter 48 "Views and View Templates" and Chapter 49 "Preparing Construction Documents"):

"When a view template is assigned to a view type through the Type Properties dialog, any new view created from that view type automatically receives the defined view template. This ensures consistent visibility, graphics, and discipline settings for all new views."

In this image, the parameter "View Template applied to new views" is set to Electrical Plan, and "New views are dependent on template" is checked. This means that any new floor plan created using this type will automatically have the Electrical Plan template applied, and the view will be dependent on that template, meaning it inherits all its visibility and annotation control settings.

This ensures that all electrical floor plan views generated are standardized and visually consistent, a fundamental practice in Revit Electrical Design workflows, as described in the Smithsonian Facilities Revit Template User's Guide:

"Assigning a default view template to a view type (e.g., Electrical Plan) ensures every new view created follows organizational and graphical standards without manual setup." Option A matches this behavior exactly.

Option B is incorrect** because Revit does not create a new template automatically.

Option C is incorrect** because duplication of an existing view does not reassign templates by type.

Option D is incorrect** because dependent view creation requires a specific "Duplicate as Dependent" command, not this setting.

References:

Autodesk Revit MEP User's Guide - Chapter 48 "Views and View Templates," pp. 1112-1115 Smithsonian Facilities Revit

Template User's Guide - Section 2.8.1 "View Types and View Templates," p. 30 Autodesk Revit Electrical Design Essentials -

View Template Application and Management Section

NEW QUESTION # 34

An electrical designer has noticed lighting fixtures present in an architectural linked model. Which tool should be used to place an instance of those fixtures in the current electrical model while maintaining the position from the architectural model?

- A. Copy/Monitor
- B. Reload Latest
- C. Reconcile Hosting
- D. Coordination Review

Answer: A

Explanation:

When lighting fixtures placed in an architectural linked model need to be replicated in the electrical model while maintaining their exact positions, the correct tool is Copy/Monitor.

This Revit feature allows the electrical designer to copy elements-like lighting fixtures-from a linked model into their project, while establishing a monitoring relationship between the original (architectural) and copied (electrical) instances.

From the Autodesk Revit MEP User's Guide - Chapter 55 "Multi-Discipline Coordination" (pages 1349-1357):

"Use the Copy/Monitor tool to copy MEP fixtures from an architectural model into an MEP project, and monitor them for changes." (Revit MEP User's Guide, p. 1350)

"To copy fixtures from a linked model:

Click Collaborate tab > Coordinate panel > Copy/Monitor > Select Link.

Select the linked architectural model in the drawing area.

Click Copy and select the lighting fixtures to copy.

Click Finish.

Revit MEP copies the fixtures to the current project and establishes monitoring relationships."* (Revit MEP User's Guide, p. 1356)

Behavior and Benefits:

The copied lighting fixtures maintain the same location, orientation, and type mapping as in the linked model.

Any changes (move, delete, or modify) made by the architect in the linked model will trigger a coordination review in the electrical model.

This ensures accurate positioning and easy coordination between disciplines.

"When you select a copied fixture in the current project, the monitor icon displays next to the fixture, indicating that it has a relationship with the original fixture in the linked model." (Revit MEP User's Guide, p. 1357)

"If copied fixtures are moved, changed, or deleted in the linked model, Revit MEP notifies the engineers of the changes during Coordination Review." (Revit MEP User's Guide, p. 1357)

NEW QUESTION # 35

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. The connected loads are set to a different voltage than the switchboard.
- B. The Motor demand factor is configured to adjust the connected load.
- C. Sum true load and reactive load is selected in Electrical Settings.

- D. Load is connected through the switchboard's feed through lugs.

Answer: B

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 # 36

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