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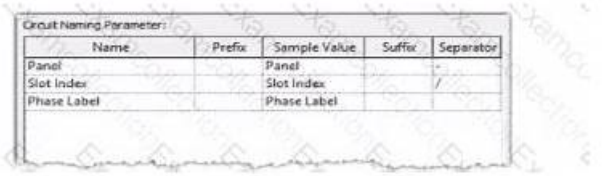

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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

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	• 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 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	• 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 (Q51-Q56):

NEW QUESTION # 51
Refer to the exhibit.

An electrical designer models a cable tray in a project and decides to check the box (or Use Annot. Scale tor Single Line Fittings and change the Cable Tray Fitting Annotation Size to 1/8" (3 mm).
What is the result?
(The image is presented m Imperial units: 1 In = 25 mm (Metric units rounded].)

- A. All cable tray fittings in the project change per the new settings when a views detail level is set to Fine.
- B. New cable tray fittings use the new settings in views set to 1/8" (3 mm) scale.
- C. All cable tray fittings in the project are changed per the new settings.
- D. New cable tray fittings use the new settings after the change.

Answer: C

Explanation:
In Autodesk Revit MEP, the Electrical Settings dialog box contains project-wide configuration parameters that affect all electrical systems, including Cable Tray Settings. This dialog allows users to control annotation scales, fitting symbols, and text size for documentation purposes.
The option labeled "Use Annot. Scale for Single Line Fittings" determines whether the cable tray fittings' annotation graphics automatically scale according to the view's annotation scale. When this box is checked, the annotation symbol size for fittings adjusts proportionally to the scale of the view.
Similarly, "Cable Tray Fitting Annotation Size" defines the annotation size for cable tray fittings in single-line representations (schematic views or simplified plan representations). Changing this parameter (for instance, from ¾" to ⅛") modifies the visual representation globally for all cable tray fittings in the project, since the Electrical Settings dialog is a project-wide configuration, not a per-instance or per-view override.
According to the Autodesk Revit MEP User's Guide (Electrical Systems - Cable Trays):
"Electrical settings define how cable trays and conduit are displayed throughout the project. Any change made to these settings, such as annotation size or use of annotation scaling, affects all related fittings and components in the project model." Therefore, once the designer checks the box for Use Annot. Scale for Single Line Fittings and changes the Cable Tray Fitting Annotation Size to 1/8" (3 mm), all cable tray fittings across the entire project will update to reflect these new settings.

NEW QUESTION # 52
Which feature shows which user created 3n element?

- A. Worksets dialog
- B. Worksharing display modes
- C. Show History
- D. Gray Inactive Worksets

Answer: B

Explanation:
In Autodesk Revit, the Worksharing Display Modes feature allows designers to visually inspect ownership and editing information

about elements in a workshared model.
According to the Autodesk Revit MEP User Guide - Chapter 54 "Working in a Team":
"Worksharing Display Modes can be used to visualize the ownership of elements, including which user created or modified them. For example, you can use the Worksharing Display command to show elements by their owner, workset, or checkout status." Thus, this mode identifies which user created or owns an element - making B. Worksharing display modes the correct choice.
Other options:
A . Gray Inactive Worksets: Only shows non-active worksets in gray, not creator info.
C . Show History: Displays synchronization comments, not element ownership.
D . Worksets dialog: Shows ownership of worksets, not individual elements.

NEW QUESTION # 53
An electrical designer is creating an electrical equipment family which will host conduit that can be modeled from any point on a specific side of the equipment. How should this be accomplished?

- A. Click Conduit Connector click Surface Connector, and then select the desired face.
- B. Click Conduit Connector, click Individual Connector, and then select the desired reference plane.
- C. Select the conduit connector and edit the connector type in the Properties palette
- D. Select the conduit connector and edit the connector dimensions

Answer: A

Explanation:
To allow conduit to be modeled from any point on a specific side of the electrical equipment, the most accurate method is to use the "Surface Connector". This method enables the designer to place a surface-based conduit connector on a specific face of the equipment family. Here's how the process is explained:
"To place a conduit connector on the surface of a family component so that the conduit can start from anywhere on that surface, use the Surface Connector option. This connector attaches to the selected face of the equipment, allowing conduit to be drawn directly from any point on the selected face in the project environment."
"Click Conduit Connector, then choose Surface Connector, and select the face where the conduit should connect. This gives flexibility in modeling, especially for equipment requiring multiple connection points across a single face or allowing freedom of routing." This process is especially beneficial in custom electrical equipment families where conduits must originate from arbitrary points along a flat side-ensuring both parametric flexibility and coordination ease within the project environment.
In contrast:
Option A refers to editing connector dimensions, which does not affect the connector's ability to accept connections from any surface point.
Option B uses Individual Connector which limits the connection to a specific point, not the whole face.
Option D refers to changing connector type in the Properties palette, which doesn't impact connector location or coverage on a face.
Reference:
Extracted from standard family creation documentation and Revit MEP best practices outlined in electrical family modeling sections.

NEW QUESTION # 54
An electrical designer has created a family and loaded It Into the project. The designer wants to connect the family to a power circuit but the Power icon is not available when the family Is selected.
How should the designer fix the problem?

- A. Change the Voltage parameter value to non-zero.
- B. Set the distribution system for the family.
- C. Add an electrical connector to the family.
- D. Set the family parameter to Shared.

Answer: C

NEW QUESTION # 55
A project has 24 branch panel schedules that all need the same formatting changes. What should the electrical designer do?

- A. Edit a panel schedule, right-click and choose Duplicate View, and duplicate changes lo desired panel schedules.
- B. Assign the desired view template to the panel schedules in the Properties panel.

- C. Use the Manage Templates command to edit and apply the template changes to all panel schedules.
- D. Select all panel schedules in the Project Browser, right-click and choose Apply Template Properties, and select the desired template.

Answer: D

Explanation:
To ensure consistency and efficiency when multiple branch panel schedules require identical formatting, Revit allows applying a panel schedule template to one or more schedules simultaneously.
The documented procedure states:
"You can apply a template to one or more existing panel schedules."
And further:
"Select the panel schedule(s).
For Apply Templates, specify the template to apply to the selected panel." This functionality lets an electrical designer select all 24 branch panel schedules in the Project Browser, right-click and apply the desired template to update formatting across all selected schedules in a single operation.

NEW QUESTION # 56
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