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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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.

Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q37-Q42):

NEW QUESTION # 37
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. New cable tray fittings use the new settings in views set to 1/8" (3 mm) scale.
- B. New cable tray fittings use the new settings after the change.
- C. All cable tray fittings in the project change per the new settings when a views detail level is set to Fine.
- D. All cable tray fittings in the project are changed per the new settings.

Answer: D

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 # 38
Refer to exhibit.
An electrical designer tries to place a generic annotation family in a data device family. The designer receives the error message as shown. What should the designer do?

- A. Edit the generic annotation family and set it to Shared.
- B. Select the Maintain Annotation Orientation parameter checkbox
- C. Set the view to the Ref. Level.
- D. Change the Detail Level to Coarse.

Answer: A

Explanation:
The warning message - "Can't create this kind of element in this view in the current mode" - appears when an electrical designer attempts to place a Generic Annotation family inside a model family (e.g., a data device or electrical fixture) that is not configured to host annotation elements.
According to the Revit Electrical Design documentation, Generic Annotation families are 2D annotation elements, and therefore, cannot be created or viewed in 3D model views unless configured as "Shared." The official guide clarifies:
"You can create generic annotation families and nest them inside host model families so that the annotations display in the project."
However, this only functions correctly if the annotation is enabled to act independently within the host:
"To allow a nested annotation to be visible and editable when placed in a host model family, the nested annotation must be set to Shared before loading it into the host." If the nested annotation is not set to Shared, Revit cannot create or display it in the host's model view, triggering this exact warning.
Thus, the correct workflow is:
Open the Generic Annotation family in the Family Editor.
Go to Family Category and Parameters.
Check the box "Shared" under Family Parameters.
Save and reload the family into the host electrical device family.
Other options-changing view level, detail level, or annotation orientation-do not resolve this placement restriction.

NEW QUESTION # 39
Refer to exhibit.
(The image is presented in Imperial units: 1 In = 25 mm (Metric units rounded).)
In the space properties for the space, the Lighting Calculation Luminaire Plane is Not Computed. What is causing this issue?

- A. No lights are placed in the space.
- B. The lights in this space are not circuited.
- C. The lighting fixtures are missing an IES file.
- D. Lights are at different elevations in the same space.

Answer: A

Explanation:
The parameter "Lighting Calculation Luminaire Plane: Not Computed" in the Space Properties dialog appears when Revit cannot perform a lighting calculation because no valid lighting fixtures are present within that defined space.
According to the Autodesk Revit MEP User's Guide (Chapter: Spaces and Lighting Analysis):
"Lighting calculations are performed based on the luminaire data available in the space. If no light fixtures are present, the parameter 'Lighting Calculation Luminaire Plane' displays as 'Not Computed'. Revit requires at least one hosted or ceiling-mounted lighting fixture with a valid light source to calculate illumination." In this case, although the space has defined reflectance values (ceiling, wall, and floor) and a lighting calculation workplane height (2'-6"), Revit cannot compute the Luminaire Plane because the software has no lighting geometry to reference for the photometric analysis.

Explanation of incorrect options:
A . Missing IES file: This would cause inaccurate photometric output, but not "Not Computed." C . Lights not circuited: Circuiting affects load summaries, not lighting calculations.
D . Lights at different elevations: Revit still computes the average luminaire plane even with varied fixture heights.
Thus, the lighting calculation is not computed simply because no lighting fixtures are placed in the space.
References:
Autodesk Revit MEP 2011 User's Guide, Chapter 46: Spaces and Lighting Analysis, pp. 1064-1068.
Autodesk Revit 2021 Electrical Design Guide, Lighting Analysis Parameters.
Smithsonian Facilities Revit Template User's Guide (2021), Section 8.7 - Lighting Performance Parameters in Spaces.

NEW QUESTION # 40
An electrical designer is working in a workshared project with a team of people. The electrical designer does not want to see the linked architectural model in any of their views. The rest of the team still needs to see the architectural link.
Which process should the electrical designer use?

- A. Manage Links > Select architectural link > Click Unload
- B. Manage Links > Select architectural link > Click Unload for me
- C. Manage Links > Select architectural link > Click Remove
- D. Manage Links > Select architectural link > Click Unload For all users

Answer: B

Explanation:
In Autodesk Revit workshared projects, it is common for teams from multiple disciplines (architecture, structure, MEP) to collaborate using linked Revit models. Sometimes, an electrical designer may wish to hide or unload the linked architectural model only for their local session, without affecting how other team members see it.
Revit provides the "Unload for Me" option specifically for this purpose.
According to the Autodesk Revit MEP User's Guide (Chapter: Worksharing - Managing Linked Models):
"When working in a shared model environment, you can unload a link temporarily from your local file using the Unload for Me command in the Manage Links dialog. This action affects only your local copy and does not impact other users working on the project. The link remains loaded for all other team members." This means that using Manage Links → Select the architectural link → Click Unload for Me, the designer can remove the visual presence of the architectural model from all of their views without impacting the rest of the team. The link remains active in the central model, and other disciplines will continue to see it as usual.
Here's a breakdown of the incorrect options:
B . Remove: Permanently removes the link from the project, affecting all users - not allowed in a team collaboration environment.
C . Unload: Temporarily unloads the link for everyone upon synchronization with the central model.
D . Unload For all users: Explicitly unloads the link globally; all users lose access to the link after the next sync.
Therefore, the correct process for the electrical designer to hide the architectural link only for themselves is:
➡ Manage Links → Select architectural link → Click "Unload for Me."
References:
Autodesk Revit MEP 2011 User's Guide, Chapter 55: Worksharing - Managing Links, pp. 1342-1344.
Autodesk Revit 2021 Help, "Unload for Me vs. Unload - Managing Links in Workshared Projects." Smithsonian Facilities Revit Template User's Guide (2021), Section 6.3.3 - Worksharing and Link Visibility Controls.

NEW QUESTION # 41
Refer to exhibits.
When loaded into a project, the family displays as below in plan view.
The electrical designer is satisfied with the line color and weight of the transformer because it matches all other electrical equipment in the project. However, the designer wants the housekeeping pad to display with different line properties as shown below.
How can this be achieved?
An electrical designer creates a simple family of a transformer with a concrete housekeeping pad using two rectangular extrusions. Both extrusions and their properties within the family editor are shown.

- A. Within the family editor, right-click the housekeeping pad object and select Visibility from the context menu. Edit the line properties as desired.
- B. Within the project, right-click and select Override Graphics in View from the context menu. Edit the line properties as desired.
- C. Within the family editor, select the housekeeping pod object and change it from a solid to a void.

- D. Within the family editor, create a new object style subcategory with the desired properties. Assign that subcategory to the housekeeping pad object.

Answer: D

Explanation:
In Autodesk Revit Electrical Design, when customizing a family-such as a transformer with a housekeeping pad-each element within the family can have its own subcategory under the parent category (in this case, Electrical Equipment). Subcategories are critical for controlling line weight, color, and material properties independently in project views and visibility settings.
The issue described is that the transformer and its concrete pad currently share the same default category (Electrical Equipment) and therefore use identical line weights and colors in plan view. The designer wants the housekeeping pad to display differently - for example, with a lighter or dashed outline.
According to the Autodesk Revit MEP User's Guide (Chapter: Creating and Editing Families):
"To control the visibility or graphical appearance of individual components within a family, create a new Object Styles subcategory under the parent category. You can then assign any solid or void geometry in the family to that subcategory. When loaded into a project, the subcategory can be independently controlled through Visibility/Graphics (VG) settings." This is the exact and recommended workflow for differentiating line appearances between elements in the same family.
Steps to achieve this:
In the Family Editor, open Manage tab ➤ Object Styles.
Under the Model Objects tab, click New to create a new subcategory (e.g., "Housekeeping Pad").
Set the desired line weight, color, or material properties.
Select the housekeeping pad extrusion in the model.
In the Properties palette, under Identity Data → Subcategory, choose Housekeeping Pad.
Reload the family into the project.
You can now modify or control its visibility independently in project views.
Why the other options are incorrect:
A . Change to void: A void removes geometry, not graphical appearance.
B . Override Graphics in View: Applies only in a single view, not globally across the project.
D . Visibility from context menu: Controls whether the object is visible, not its line properties.
Thus, the most efficient, parametric, and Revit-standard method is to use subcategories within the family to apply distinct graphical controls.
References:
Autodesk Revit MEP 2011 User's Guide, Chapter 53: Creating Families - Managing Object Styles, pp. 1248-1251.
Autodesk Revit Architecture 2020 Help, "Assigning Geometry to Subcategories in Families." Smithsonian Facilities Revit Template User's Guide (2021), Section 8.4.1 - Electrical Equipment Family Standards and Subcategories.

NEW QUESTION # 42
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