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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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	• 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.

Autodesk - RVT_ELEC_01101 Accurate Interactive Course

Taking GuideTorrent Autodesk Certified Professional in Revit for Electrical Design (RVT_ELEC_01101) practice test questions are also important. These RVT_ELEC_01101 practice exams include questions that are based on a similar pattern as the finals. This makes it easy for the candidates to understand the Autodesk Certified Professional in Revit for Electrical Design (RVT_ELEC_01101) exam question paper and manage the time. It is indeed a booster for the people who work hard and do not want to leave any chance of clearing the RVT_ELEC_01101 Exam with brilliant scores. These Autodesk Certified Professional in Revit for Electrical Design (RVT_ELEC_01101) practice test questions also boost your confidence.

Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q26-Q31):

NEW QUESTION # 26
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?

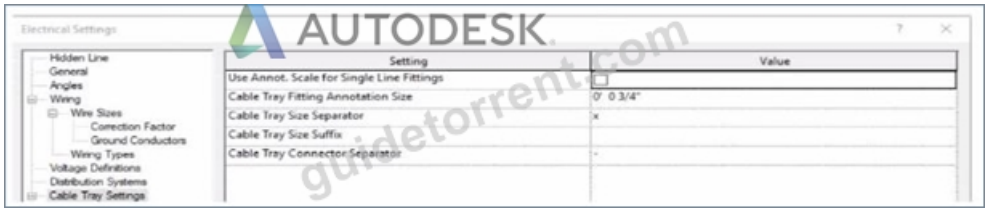
- A. Place the cursor over an edge of the object and then press Spacebar.
- B. Place the cursor anywhere over the object and then press Spacebar.
- C. Start the Align tool and select the edges to be aligned.
- D. Start the Align tool. tab to select the object edge, and then select the equipment edge.

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 # 27
Refer to the exhibit.



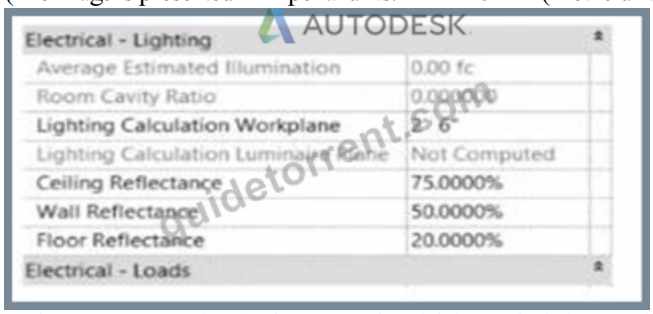
An electrical designer models a cable tray in a project and decides to check the box (or Use Annot. Scale tor Single Line Fittings and change the Cable Tray Fitting Annotation Size to 1/8" (3 mm).
What is the result?
(The image is presented m Imperial units: 1 In = 25 mm (Metric units rounded].)

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

Answer: B

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 # 28
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?

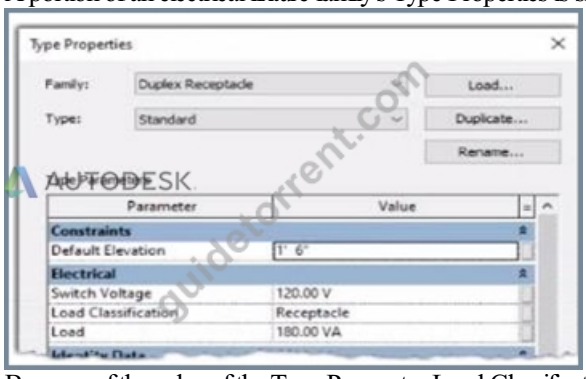
- A. The lights in this space are not circuited.
- B. Lights are at different elevations in the same space.

- C. No lights are placed in the space.
- D. The lighting fixtures are missing an IES file.

Answer: C

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 # 29
Refer to exhibit.
A portion of an electrical fixture family's Type Properties is shown in the exhibit.



Because of the value of the Type Parameter Load Classification, an electrical designer expects the fixture's Load Classification to display as -Receptacle" when circuited. Instead, it displays as "Other".
What should the designer do to make the circuited fixture's Load Classification always match the family's Type Parameter?

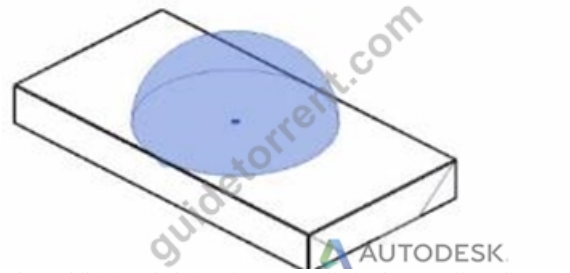
- A. Edit the family. Change the power connector's Load Classification to "Receptacle". Reload the family into the project.
- B. Edit the family. Delete the power connector and place a new power connector. Parameter associations will be made automatically. Reload the family into the project.
- C. Edit the fixture Instance in the System Browser. In the Load Classification column, associate the fixture's Load Classification to the family parameter.
- D. Edit the family. Associate the power connector's Load Classification with the family parameter. Reload the family into the project.

Answer: D

Explanation:
In Autodesk Revit Electrical Design, each electrical family (such as a receptacle, lighting fixture, or equipment) can contain one or more connectors that define how it interacts with the electrical system. The Load Classification parameter determines how the connected load is categorized in electrical schedules and load calculations (e.g., Lighting, Power, Receptacle, Other).
When a family's Type Parameter Load Classification does not display correctly (e.g., it shows "Other" instead of "Receptacle" after being circuited), the issue lies in the power connector's internal parameter not being linked to the family-level "Load Classification" parameter. Revit uses the connector's classification to determine the load type when it is connected to a circuit - if the connector isn't associated, the classification defaults to "Other." According to the Autodesk Revit MEP User's Guide (Chapter: Electrical Systems -

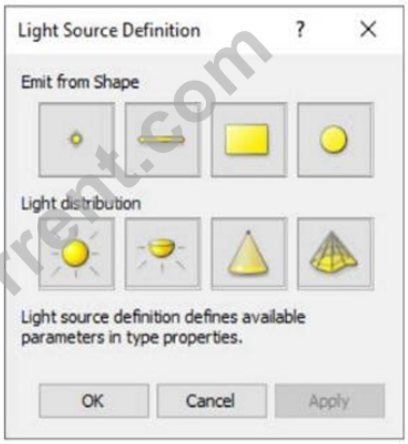
Creating Electrical Families), it specifies:
"To control how a component reports its connected load type, associate the power connector's Load Classification parameter with a corresponding Family Parameter. This ensures the load classification in the circuit matches the family definition, rather than defaulting to 'Other.' To correct existing families, edit the family in Family Editor, select the connector, and associate its Load Classification parameter with the family's Load Classification type parameter. Then reload the family into the project." This confirms that the correct approach is to edit the family and create or link the Load Classification parameter to the connector's Load Classification field. Merely changing the connector value (option C) won't ensure dynamic synchronization between the family type and circuit. Deleting and re-adding the connector (option B) won't automatically create that link. Option D (editing through the System Browser) modifies instance-level data, not family associations.
Hence, the correct and permanent fix is:
Open the family in the Family Editor.
Select the power connector.
In the Properties palette, click the small Associate Family Parameter button () next to Load Classification.
Link it to the family's Load Classification parameter.
Save and reload the family into the project.
References:
Autodesk Revit MEP 2011 User's Guide, Chapter 53: Creating Electrical Families, pp. 1254-1257.
Smithsonian Facilities Revit Template User's Guide (2021), Section 8.3. Electrical Design: Power Connector Parameters.
Autodesk Revit 2020 Help: "Associate a Connector Parameter with a Family Parameter."

NEW QUESTION # 30
Refer to exhibit.



The exhibit is a lighting fixture family in the Family Editor environment and the light source is selected.
An electrical designer has downloaded a photometric web tile in IES format from a manufacturer's website for use within this lighting fixture family.
Define the light source's Emit Shape and Light Distribution for use with the photometric web (IES) file. (Select two in the answer area.)

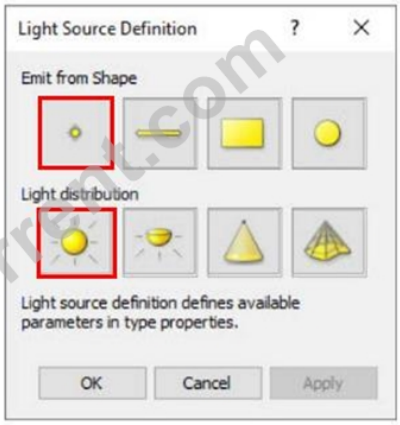
nswer area



Answer:

Explanation:

Answer area



NEW QUESTION # 31

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