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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	• 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	• 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 4	• 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 5	• 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.

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q41-Q46):

NEW QUESTION # 41
Refer to exhibit.

An electrical designer is placing electrical equipment. When the electrical designer selects a component in the contextual ribbon, the Placement panel appears in the contextual ribbon.
Which condition does this Placement panel indicate?

- A. The component was created using a lace-based template.
- B. The component was created using a wall-based template
- C. The component was created using a floor-based template.
- D. The component is set to use the Always Vertical option

Answer: B

Explanation:
The Placement panel shown in the exhibit - with options such as Place on Vertical Face, Place on Face, and Place on Work Plane - is displayed only when the family being placed was created using a wall-hosted (face-based or vertical face-based) template. This indicates that the family is designed to be hosted on a vertical surface, such as a wall, rather than a floor or level.
According to the Autodesk Revit MEP User's Guide (Chapter 44 "Creating and Modifying Families"):
"When placing a hosted family, the placement options depend on the family's host type.
Wall-based families display the Place on Vertical Face option.
Ceiling-based families display Place on Face or Place on Work Plane.
Floor-based families display Place on Work Plane only."
The "Place on Vertical Face" option specifically appears for wall-hosted or face-based components because it allows the user to select a vertical plane, typically representing a wall surface. This confirms that the family template used during creation was Wall-based (commonly "Electrical Equipment - Wall Based.rft" or "Generic Model - Wall Based.rft").

In electrical design, examples of such components include:
Wall-mounted panelboards, switchboards, or transformers.
Receptacles or lighting control devices hosted on walls.
The Smithsonian Facilities Revit Template Guide reinforces this explanation:
"Wall-based components, such as surface-mounted panels, display the Place on Vertical Face option. This confirms the family is wall-hosted and cannot be placed freely on floors or reference planes." Why the Other Options Are Incorrect:
A . Face-based template: Would show "Place on Face" (not necessarily limited to vertical).
C . Floor-based template: Displays "Place on Work Plane" only.
D . Always Vertical option: Controls orientation (rotation relative to surface), not placement host type.
Therefore, the Placement panel confirms the component was created using a wall-based family template, allowing it to be attached only to vertical surfaces.
References:
Autodesk Revit MEP User's Guide - Chapter 44 "Creating and Modifying Families," pp. 1028-1032 Smithsonian Facilities Revit Template User's Guide - Section 7.4 "Family Hosting and Placement Behavior," pp. 72-74 Autodesk Revit Electrical Design Essentials - "Wall-Based Equipment and Hosting Parameters in Family Creation"

NEW QUESTION # 42
An electrical designer is routing conduit through a building model to coordinate with other disciplines, the electrical designer wants to view selected components in a cropped 3D view.
With the conduit components selected, which tool should the designer use?

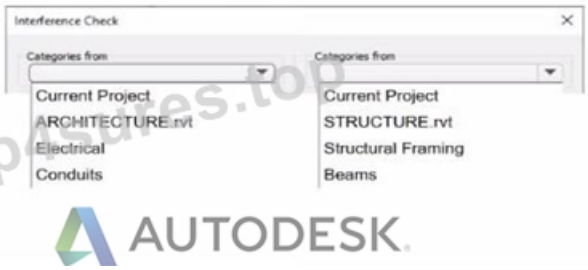
- A. Default 3D View
- B. Scope Box
- C. Section Box
- D. Selection Box

Answer: D

Explanation:
In Revit Electrical Design, the Selection Box tool is used to quickly isolate and display selected components in a cropped 3D view. When an electrical designer selects conduits or devices in a model and chooses Selection Box from the Modify tab, Revit automatically generates a 3D view bounded tightly around the selected elements, helping coordinate routing in confined or congested spaces.
According to the Revit MEP User's Guide under "Creating 3D Views":
"Use the Selection Box tool to create a 3D view that isolates selected elements. Revit automatically crops the view extents to the selected geometry." This feature is critical in multidisciplinary coordination because it allows the electrical designer to review specific conduits, cable trays, or lighting paths in context without manually adjusting view boundaries.
In contrast:
Default 3D View (Option B) shows the entire model.
Scope Box (Option C) controls view extents in 2D views or view templates, not instant isolation.
Section Box (Option D) is manually adjusted within an existing 3D view but does not automatically generate a cropped view around selected elements.
Therefore, the Selection Box is the correct and most efficient tool for this task.
References:
Autodesk Revit MEP User's Guide - Chapter 47 "Creating and Managing 3D Views," pp. 1108-1111 Smithsonian Facilities Revit Template User's Guide - Section 3.6 "Egress Routes and Coordination Views," p. 40 Autodesk Revit Electrical Design Essentials - 3D Visualization and Coordination Techniques

NEW QUESTION # 43
An electrical designer needs to check for Interferences between conduit in the host model and beams in a linked structure model in the Interference Check dialog, select the items that the designer must select to perform the interference check. (Select two.)

Answer area



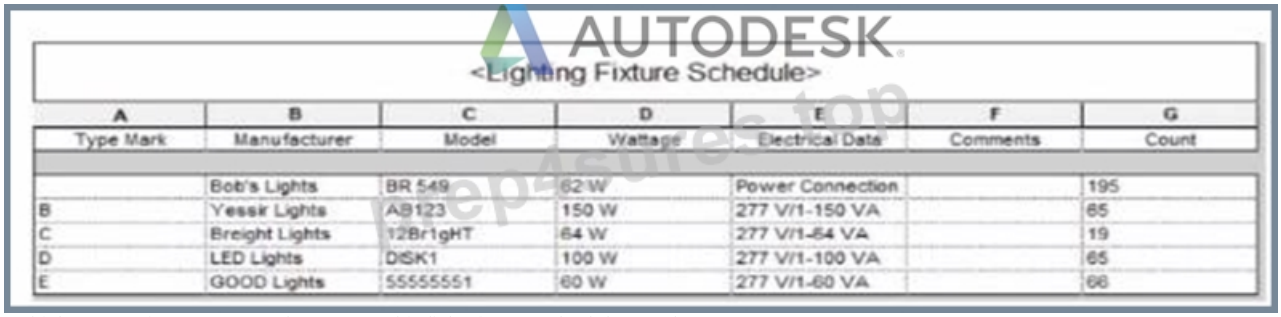
Answer:

Explanation:

Answer area

NEW QUESTION # 44

Refer to exhibit.



<Lighting Fixture Schedule>

A	B	C	D	E	F	G
Type Mark	Manufacturer	Model	Wattage	Electrical Data	Comments	Count
	Bob's Lights	BR 549	62 W	Power Connection		195
B	Yessir Lights	AB123	150 W	277 V/1-150 VA		65
C	Breight Lights	12Br1gHT	64 W	277 V/1-64 VA		19
D	LED Lights	DISK1	100 W	277 V/1-100 VA		65
E	GOOD Lights	55555551	60 W	277 V/1-60 VA		66

Which two actions were used to create this light fixture schedule? (Select two.)

- A. Sorted by instance and quantity.
- B. Added both electrical and switch system settings.
- C. Filtered to only show lights that have a type mark value.
- D. Sorted by type mark.
- E. Deselected Itemize every instance.

Answer: D,E

Explanation:

In the given Lighting Fixture Schedule, each row represents a lighting fixture type rather than individual instances, and the "Count" column summarizes how many fixtures of that type exist in the project. To achieve this layout in Revit, two specific actions must be performed in the Schedule Properties dialog:

Deselected "Itemize every instance."

The Revit documentation explains:

"Itemize every instance. This option displays all instances of an element in individual rows. If you clear this option, multiple instances collapse to the same row based on the sorting parameter. If you do not specify a sorting parameter, all instances collapse to one row." By deselecting this checkbox, Revit consolidates identical fixture instances of the same type into a single row - exactly as shown in the exhibit, where each "Type Mark" (A, B, C, etc.) appears once with a summarized Count.

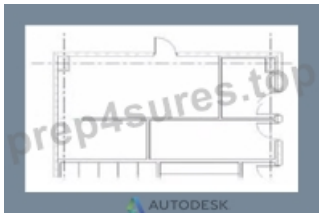
Sorted by Type Mark.

On the same Sorting/Grouping tab, Revit allows users to organize the schedule by a specific field:

"On the Sorting/Grouping tab of the Schedule Properties dialog, you can specify sorting options for rows in a schedule... You can sort by any field in a schedule, except Count." In the example, fixtures are sorted alphabetically by their "Type Mark" (A through E).

This ensures the grouped and counted results appear in order.
Other options-such as filtering by type mark or adding switch data-do not impact how instances collapse or group within the schedule.

NEW QUESTION # 45
Refer to exhibit.



In this linked architectural model, demolished walls are missing The electrical designer teams from the architect that the walls have been placed in a phase that does not exist in the host model.
Which steps should the designer lake to associate the architectural phases to their phases?

- A. Select the link > Edit Type > Phase Mapping
- B. Select Phases > Graphic Overrides
- C. Open Visibility Graphics > Revit Links > Display Settings
- D. Open Manage Links > Manage Phases

Answer: A

Explanation:
In Autodesk Revit, when demolished walls or other elements from a linked architectural model are missing in the host model, the issue typically lies in phase inconsistency between the host and linked models. The architectural model may include elements created or demolished in phases that do not exist or are mismatched in the electrical model (the host). To resolve this, Revit allows users to map phases between the host and linked models through the Phase Mapping tool in the link's Type Properties dialog.
According to the Autodesk Revit MEP Electrical Design Guide (Linked Models Section, pp. 1282-1287), the official procedure is:
"You can manually set up a correspondence between phases in the host model and phases in the linked model. To do this, you set up a phase map in the properties of the linked model, and then apply the phase map in the host model." (Revit MEP User's Guide, Chapter 53 - Linked Models, p. 1282) The step-by-step process is precisely described in the Revit documentation as follows:
To map phases in the linked model:
In the drawing area of the host model, select the linked Revit model.
Click Modify | RVT Links tab ➤ Properties panel ➤ Type Properties.
In the Type Properties dialog, find the Phase Mapping parameter and click Edit.
In the Phases dialog, select the appropriate mapping options for each phase, and click OK.
Click OK to exit the Type Properties dialog.
(Revit MEP User's Guide, p. 1287)
This procedure ensures that demolished or existing architectural elements display correctly according to the electrical model's phase structure. Without this mapping, Revit cannot interpret which linked phase corresponds to the host's "Existing" or "New Construction" phases, causing certain geometry-like demolished walls-to disappear from view.
Supporting Extracts from Revit for Electrical Design Study Documentation:
Linked Model Type Properties:
"To modify the type properties of a linked model, select the linked model in the drawing area, and click Modify | RVT Links tab ➤ Properties panel ➤ (Type Properties).
The Phase Mapping parameter allows you to set up a correspondence between phases in the host model and phases in the linked model." (Revit MEP 2011 User's Guide, p. 1305) Phases and Linked Models Concept:
"When you link a Revit model that has more than one phase, phases in the host model automatically map to phases in the linked model. When this initial mapping occurs, Revit maps phases by matching phase names.
You can manually set up a correspondence between phases in the host model and phases in the linked model using the Phase Mapping function." (Revit MEP 2011 User's Guide, p. 1282) Phase-Specific Room and Element Display:
"If phase-specific elements in a linked model do not reflect correctly, check phase mapping for the linked model. If automatic mapping does not give the desired result, map phases manually between projects." (Revit MEP 2011 User's Guide, p. 710)
Conclusion:
Therefore, to fix the issue where demolished walls are missing in a linked architectural model, the electrical designer must perform manual phase mapping between the architectural model and the host electrical model. This is done by selecting the linked file, opening its Type Properties, and editing the Phase Mapping parameter.

NEW QUESTION # 46

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