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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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	• 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.

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

NEW QUESTION # 37
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 all users
- C. Manage Links > Select architectural link > Click Unload for me
- D. Manage Links > Select architectural link > Click Remove

Answer: C

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 # 38
Refer to exhibit.
An electrical designer has accidentally hosted Panel B to Panel A. Select two ways the designer can correct hosting. (Select two.)

- A. Edit the Mounting value in the Properties palette.
- B. Use the Edit Work Plane command
- C. Use the Move command.
- D. Edit the Host value in the Properties palette.
- E. Use the Pick New command in the Work Plane panel.

Answer: B,E

Explanation:
In Autodesk Revit's Electrical discipline, when electrical components such as panelboards are hosted incorrectly (for example, Panel B hosted to Panel A instead of a wall or level), the hosting relationship must be corrected by reassigning the work plane or host. This is essential because hosted electrical elements depend on the geometry or level of their host for placement, alignment, and coordination.
According to the Revit MEP User's Guide (Chapter 45 "Work Planes and Element Hosting"):
"If a hosted element is placed incorrectly or the host has changed, use the Edit Work Plane or Pick New commands to redefine its host or work plane." Here's how these two tools apply:
Pick New (Option A)
Located under the Work Plane panel on the Modify tab, this command allows you to select a new face or host (e.g., a wall, ceiling, or floor) for the existing component. It effectively reassigns the element's host without deleting or recreating the element.
"Use Pick New to specify a different face or surface as the host for a component that was incorrectly placed."
Edit Work Plane (Option E)
This command lets the designer redefine the reference level or named work plane to which an element is associated. For hosted electrical equipment (like lighting or panels), this ensures the object references the correct structural or architectural surface.
"To correct hosting errors, open Edit Work Plane from the Modify tab, and assign a new named plane, level, or face." Incorrect Options Explanation:
B . Edit Mounting value - changes only how the panel is mounted (e.g., recessed or surface), not the host itself.
C . Move command - repositions the element but does not change the hosting relationship.
D . Edit Host value - the "Host" parameter is read-only; it cannot be edited directly.
Thus, the correct methods to rehost Panel B from Panel A to the correct wall or work plane are through Pick New and Edit Work Plane, ensuring proper association and maintaining system connectivity.
References:
Autodesk Revit MEP User's Guide - Chapter 45 "Work Planes and Hosting," pp. 1068-1072 Smithsonian Facilities Revit Template User's Guide - Section 6.2.3 "Complex Geometry and Multiple Parametric Relationships," p. 57 Autodesk Revit Electrical Design Essentials - "Rehosting Electrical Equipment and Devices"

NEW QUESTION # 39
Refer to exhibit.
An electrical designer is reviewing the Type Properties for a floor plan view. How will the view behove 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. A new floor plan view created by duplicating a floor plan view of the Floor Plan type will be duplicated as a dependent view.
- C. When duplicating a floor plan view of any type, the Electrical Plan view template will be assigned to the new floor plan view.
- D. 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.

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 # 40
Refer to exhibits.
What is the demand load on Panel B?

- A. 30kVA
- B. 55kVA
- C. 65kVA
- D. 40kVA

Answer: B

Explanation:
In Revit Electrical, Demand Factors are applied through Load Classifications to compute an Estimated Demand Load rather than simply summing connected loads. The documentation states: "You use demand factors to adjust the rating of the main service... Demand factors are assigned to load classifications, and load classifications are assigned to device connectors. The estimated load for a device is calculated by multiplying the load by the demand factor. ... The panel schedule can also display the load for each load classification." In the exhibit's Demand Factor definition (for the Motor classification), the Calculation method is By quantity with Total at one percentage selected. Two quantity ranges are defined: 0-5 items at 100% and 5-unlimited at 50%. An additional checkbox adds an extra fixed load of 5000 VA to the calculated result. (This follows Revit's behavior of applying the selected demand factor to the connected load and then adding any specified additional load to the result for that classification.) Panel B feeds only panels E and F. The connected motor loads downstream are:
Panel E: 20 kVA + 10 kVA = 30 kVA
Panel F: 5 kVA + 5 kVA + 10 kVA = 20 kVA
Total connected motor load on B = 30 + 20 = 50 kVA (five items).
Because five items fall in the 0-5 range at 100%, the demand factor is 100% → 50 kVA. Per the definition, add an additional load of 5000 VA (5 kVA) to the calculated result:
Demand Load on Panel B = 50 kVA × 100% + 5 kVA = 55 kVA.
Therefore, the correct choice is 55 kVA.
References: Revit MEP Electrical documentation - Demand Factors (assignment to load classifications, multiplication to compute estimated load, and display in panel schedules).

NEW QUESTION # 41

Refer to exhibit.
(The Image is presented in Imperial units: 1 In = 25 mm [Metric units rounded).)
What is the electrical designer trying to do as shown in the exhibit?

- A. Array Conduit
- B. Place Parallel Conduits
- C. Add Cable Tray
- D. Place Multiple Pipe

Answer: B

Explanation:
The exhibit shown in the image is taken directly from the Revit MEP Electrical Systems workspace, specifically from the Parallel Conduits command interface. This dialog box appears when the designer activates the Place Parallel Conduits tool in the Systems tab → Electrical panel → Conduit dropdown → Parallel Conduits.
In this interface, the designer can specify:
Horizontal Number / Offset - defines how many conduits will be created horizontally and their spacing.
Vertical Number / Offset - defines how many conduits will be created vertically and their spacing.
Bend Radius Options:
Same Bend Radius - all conduits use identical bend radii.
Concentric Bend Radius - conduits bend concentrically around a common center point.
According to Autodesk's Revit MEP 2011 User's Guide (Chapter 18, Electrical Systems - Conduit Layout):
"The Parallel Conduits tool allows you to create multiple conduits side-by-side at the same time.
You can specify the number of conduits horizontally and vertically, as well as the offset between them.
You can also define whether bends have the same bend radius or concentric bend radii."
- Revit MEP User's Guide, Electrical Systems, Section: Conduit Layout
This tool is used when electrical designers need to route groups of conduits that run in parallel-such as power and data conduits running between panels or equipment racks.
The Concentric Bend Radius option (as shown in the exhibit) ensures all conduit bends share a common center, which is critical for maintaining uniformity in conduit sweeps and avoiding clashes during coordination.
Therefore:
A . Add Cable Tray - incorrect; the cable tray tool is separate and does not use bend radius options.
C . Array Conduit - incorrect; arraying is a different geometric function not specific to conduit routing.
D . Place Multiple Pipe - incorrect; applies to mechanical piping systems, not electrical conduits.
The display of Concentric Bend Radius, Horizontal Number, Vertical Number, and Offset confirms that the designer is using the Parallel Conduit placement tool.
Verified Reference Extracts from Revit Electrical Design Documentation:
Autodesk Revit MEP User's Guide (2011) - Electrical Systems → Conduit Layout → "Parallel Conduits Tool" description.
Autodesk Revit MEP Training Curriculum - Electrical Module, Exercise 6.3 "Placing Parallel Conduits," which illustrates the same interface for bend radius configuration.

NEW QUESTION # 42
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