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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 2	• 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 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 (Q38-Q43):

NEW QUESTION # 38
An electrical designer is creating an electrical fixture family for a receptacle. The designer nests a generic annotation family that contains the receptacle symbol and a label What must be done in the electrical fixture family so that the label value can be changed in a project?

- A. In the Visibility Settings for the nested generic annotation, select Label.
- B. Associate the nested family's parameter to a parameter in the electrical fixture family.
- C. Enable Shared in the generic annotation family and re-load it into the fixture family.
- D. Create a label and use a formula to set it equal to the generic annotation label.

Answer: B

Explanation:
In Revit, when a designer nests a Generic Annotation family (such as a receptacle symbol) inside an Electrical Fixture family, and that annotation includes a label, the label value cannot be changed directly in the project unless the parameter controlling that label is properly associated (linked) to a parameter in the host (electrical fixture) family.
According to Autodesk Revit Electrical Design documentation, under "Creating Family Parameter Links", it is explicitly stated:
"By linking family parameters, you can control the parameters of families nested inside host families from within a project view. You can control instance parameters or type parameters." The procedure describes the correct process to make the label value editable in a project:
"Click the button next to a parameter that is of the same type as the one you created in Step 6. For example, if you created a text parameter, you must select a text parameter here. In the dialog that displays, select the parameter you created in Step 6 to associate it with the current parameter, and click OK."
"The nested family changes according to the value you entered."
This means that the designer must associate the nested family's label parameter (usually a text parameter controlling the annotation label) to a corresponding parameter in the host electrical fixture family. Once linked, this host parameter appears in the project's

Properties palette, allowing the designer to change the label value directly.
Other options-such as creating formulas, modifying visibility, or enabling "Shared"-do not make the label editable in the project unless the parameter link is established.

NEW QUESTION # 39
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 For all users
- B. Manage Links > Select architectural link > Click Remove
- C. Manage Links > Select architectural link > Click Unload
- D. Manage Links > Select architectural link > Click Unload for me

Answer: D

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 # 40
Refer to the exhibit.

- A. Project Browser > Conduits > Conduits with Fittings > Single Line Symbology
- B. Electrical Settings > Conduit Settings > Rise Drop > Single Line Symbology
- C. Object Styles > Conduits > Rise/Drop > Single Line Symbology
- D. Properties > Edit Type > Single Line Symbology

Answer: D

Explanation:
In Autodesk Revit MEP, conduit systems can be represented in plan views using either detailed or single-line symbology. The Single Line Symbology display setting is used for schematic or simplified representations - often in electrical riser or distribution diagrams.
The setting that controls whether conduits display in single-line or detailed form is found in the Type Properties of the conduit family, not in Object Styles or Electrical Settings. Specifically, it is accessed by selecting a conduit in the model and navigating to:
Properties Palette → Edit Type → Single Line Symbology
From there, users can define how fittings, rise/drop symbols, and conduits themselves are represented in single-line schematic mode.
Adjusting this type parameter affects the graphical display for that conduit type throughout all applicable views where single-line graphics are used.
According to the Autodesk Revit MEP User's Guide (Electrical Systems → Conduit Systems section):
"The conduit type properties define the graphical representation in single-line drawings. By editing the Single Line Symbology in the

Type Properties dialog, designers control how the conduit and fittings appear in plan views." This parameter is especially important in electrical documentation where simplified representations are required for coordination and electrical diagrams.

NEW QUESTION # 41
An electrical designer is working on a project with multiple buildings. The designer wants to organize the Project Browser by building For example, all views related to Building A will be sorted under Building A. and all views related to Building B will be sorted under Building B.
The designer decides to create a new parameter, assign it to views, and then sort the Project Browser according to the new parameter.
Which parameter should the designer use?

- A. A project parameter
- B. A global parameter
- C. A reporting parameter
- D. A family parameter

Answer: A

Explanation:
In Autodesk Revit, Project Parameters are used to add custom fields that apply to multiple elements within a specific project file - such as views, sheets, or schedules. These parameters allow project teams to categorize, group, and sort information within the Project Browser or within schedules without editing families or external files.
As defined in the Revit MEP User's Guide and Revit Structure Parameters Chapter:
"Project parameters are specific to a single project file. Information stored in project parameters cannot be shared with other projects. A project parameter can be used, for example, to categorize views within a project." This statement directly confirms that project parameters are the correct tool for sorting or grouping views in the Project Browser.
To organize elements (like views or sheets) by building, the designer can create a custom project parameter named "Building" and assign it to the View category. Once assigned, the parameter values (e.g., "Building A" or "Building B") can be filled in for each view.
The Smithsonian Facilities Revit Template Guide further supports this:
"View purpose is a Revit project parameter, providing a means for users to organize the many views that may exist in a BIM." Thus, using a project parameter allows users to add a "Building" field to each view, enabling customized browser organization (e.g., group views by Building A, Building B, etc.) without requiring shared parameters or family editing.
References:
Revit MEP User's Guide - Chapter "Parameters" p. 1541-1543
Smithsonian Facilities Revit Template User's Guide - Section 2.8.1 "View Types and View Templates," p. 29 Autodesk Revit Electrical Design Essentials - Parameter Management Section

NEW QUESTION # 42
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. Add Cable Tray
- B. Array Conduit
- C. Place Parallel Conduits
- D. Place Multiple Pipe

Answer: C

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 # 43
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