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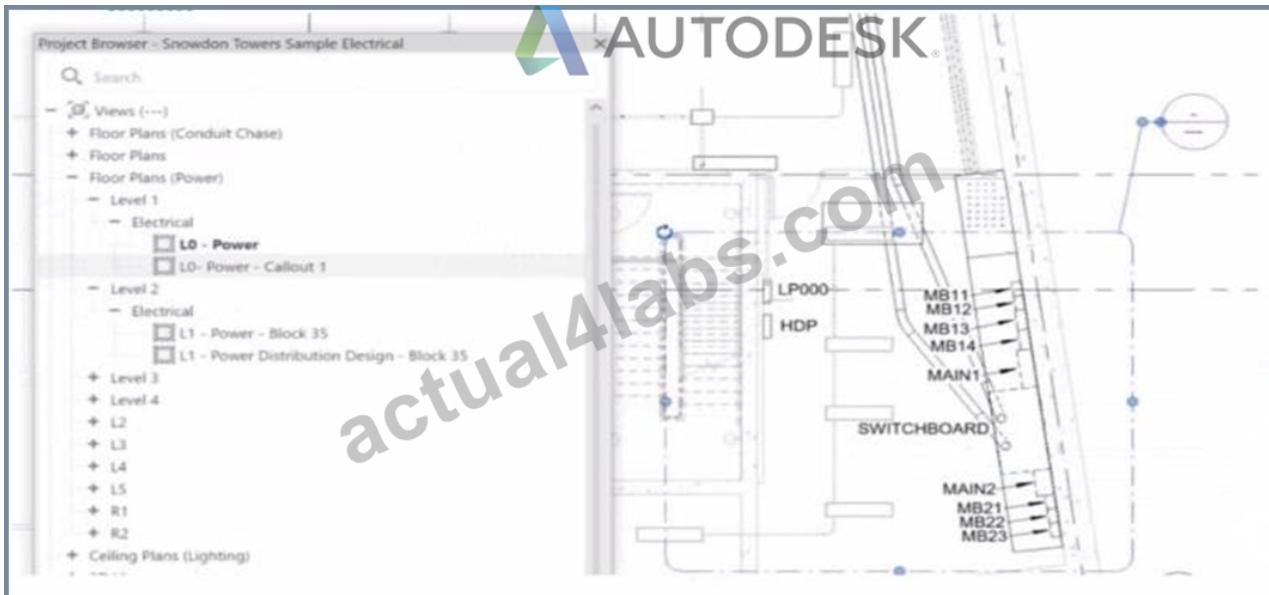
Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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 Certified Professional in Revit for Electrical Design Sample Questions (Q39-Q44):

NEW QUESTION # 39

Refer to exhibit.



- A. Open the callout view from the Project Browser and change its type.
- B. **Select the callout and choose a detail view under Reference Other View.**
- C. Delete the existing callout and create a new one with the correct type.
- D. Select the callout and change its type from the Type Selector.

Answer: B

Explanation:

In Autodesk Revit, when an electrical designer creates a callout view, the software automatically generates a new dependent or independent view based on the selected callout type. However, if a callout is accidentally linked to the wrong or redundant view, the designer can easily reassign it to another existing view without recreating the callout. This can be done using the Reference Other View property in the Properties palette.

According to the Revit MEP User's Guide (Chapter 47 "Views and Callouts"):

"To link a callout to an existing view rather than creating a new one, select the callout, and under the properties for that element, use Reference Other View to specify the desired target view." This means that when the designer selects the callout (in this case, shown as "L0 - Power - Callout 1" in the Project Browser), they can modify the Reference Other View setting from the Properties palette to point to a different, pre-existing detail view or callout view—for example, one showing an enlarged power distribution layout or switchboard detail.

This is the most efficient workflow because:

It avoids recreating or redrawing the callout (unlike Option C).

It preserves all annotation and sheet referencing data.

It ensures alignment and consistency across sheet references.

The Smithsonian Facilities Revit Template User's Guide reinforces this standard Revit practice:

"When a view reference or callout is incorrectly associated, use the Reference Other View property to redirect the annotation to an existing detail or dependent view." Why the Other Options Are Incorrect:

B. Change its type from the Type Selector: Callout types control annotation style (not the referenced view).

C. Delete and recreate: This is unnecessary and inefficient.

D. Open the callout view and change its type: Callout type cannot be changed directly once created; it's controlled by view properties.

Therefore, the correct and Revit-recommended approach is Option A: Select the callout and choose a detail view under Reference Other View.

References:

Autodesk Revit MEP User's Guide - Chapter 47 "Views and Callouts," pp. 1092-1097 Smithsonian Facilities Revit Template User's Guide - Section 2.8.1 "View Types and Templates," pp. 29-31 Autodesk Revit Electrical Design Essentials - "Callouts, Detail Views, and Referencing Workflows"

NEW QUESTION # 40

A project is almost at the end of design. The electrical designer needs to make sure electrical loads as reported by load summaries accurately reflect all modeled loads. How should a designer view a list of all modeled electrical connectors that are not connected to a circuit?

- A. Use the command Check Circuits.
- **B. Use the command Show Disconnects.**
- C. Review the System Browser.
- D. Create a circuit schedule.

Answer: B

Explanation:

In Autodesk Revit Electrical Design, ensuring that all electrical connectors are properly connected to circuits is critical to obtaining accurate load summaries and panel schedules. When nearing project completion, designers must confirm that every load (e.g., lighting fixture, power receptacle, or equipment) is associated with a circuit.

The Show Disconnects command is specifically designed to identify any electrical components whose connectors are not associated with a circuit or power system.

According to the Autodesk Revit MEP User's Guide (Chapter: Electrical Systems - Checking Electrical Circuits):

"The Show Disconnects tool allows designers to visually identify elements in a project that contain electrical connectors not currently assigned to any circuit. Using this tool, Revit highlights unconnected components, helping to ensure load summaries and panel schedules accurately reflect all modeled elements." The command is found under Analyze tab > Electrical panel > Show Disconnects. It highlights any devices-such as lighting fixtures, receptacles, or equipment-that are not circuited, enabling correction before final load calculations are performed.

Other options explained:

A . Check Circuits: Verifies that existing circuits are complete, but it does not identify unconnected components.

B . System Browser: Lists systems hierarchically but does not flag disconnected devices.

C . Circuit Schedule: Displays circuit data only for connected components.

Hence, to identify unconnected elements before finalizing design documentation, the correct tool is Show Disconnects.

References:

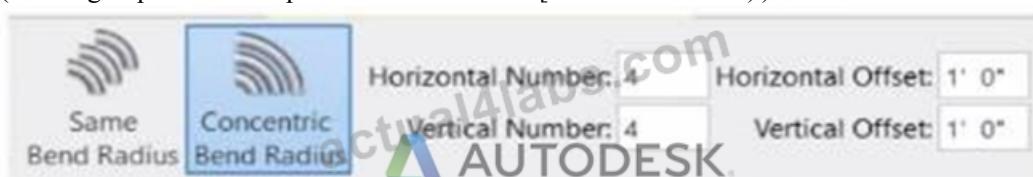
Autodesk Revit MEP 2011 User's Guide, Chapter 45: Analyzing Electrical Circuits, pp. 1034-1036.

Autodesk Revit 2020 Help, "Show Disconnects - Identify Elements Not Assigned to Circuits."

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 Multiple Pipe
- C. Add Cable Tray
- **D. Place Parallel Conduits**

Answer: D

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 Training Curriculum - Electrical Module, Exercise 6.3 "Placing Parallel Conduits," which illustrates the same interface for bend radius configuration.

NEW QUESTION # 42

Which Revit command is used to map a Keynote Table file?

- A. Element Keynote
- B. Keynote Legend
- C. Keynote Manager
- D. **Keynoting Settings**

Answer: D

Explanation:

The correct command in Revit used to map (assign or browse to) a Keynote Table file is Keynoting Settings.

In Revit, keynotes are driven by an external keynote table, typically a tab-delimited TXT file that must be assigned (mapped) in the project so keynote tags can read values correctly. The official Autodesk Revit MEP documentation clearly identifies that the Keynoting Settings dialog is where this mapping is performed.

From the documentation:

To access the Keynoting Settings dialog, the instructions state:

"click Annotate tab > Tag panel drop-down > (Keynoting Settings)."

Regarding keynote table file location mapping:

"Keynote Table - Full Path displays the entire path of the keynote file... Saved Path displays the file name of the keynote file that is loaded." It goes further to explain file path types:

"Absolute identifies a specific folder... Relative finds the keynote file where the project file... is located... At Library Locations finds the keynote file where the stand-alone installation or network deployment specified." The command is explicitly referenced again when fixing a missing mapping:

"Unable to Load Keynote data. Check keynote table locations in Keynoting Settings."

"To specify the location of the keynote text file... click (Keynoting Settings)." Other listed options do not perform keynote file mapping:

Keynote Manager does not exist as a command in native Revit.

Element Keynote is a tagging method.

Keynote Legend only displays already-mapped keynote information.

NEW QUESTION # 43

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 family parameter
- B. A reporting parameter
- C. **A project parameter**

- D. A global parameter

Answer: C

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 # 44

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