Exam RVT_ELEC_01101 Torrent & RVT_ELEC_01101 Valid Exam Review

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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	• 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	• 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	• 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 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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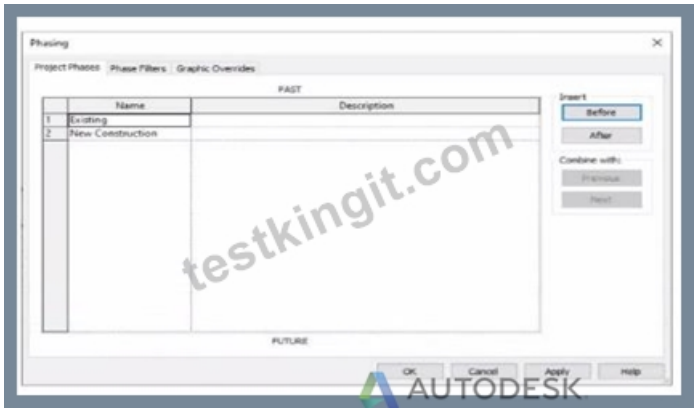
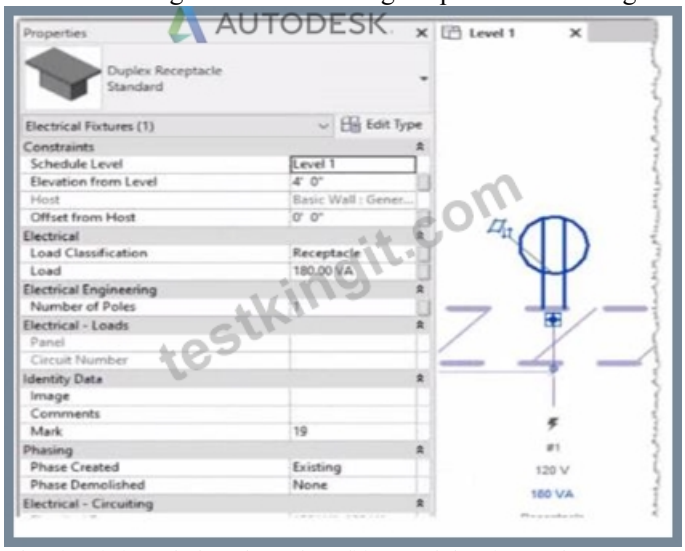
Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q55-Q60):

NEW QUESTION # 55
Refer to exhibits.



An electrical designer models an existing receptacle on an existing wall that the architect has indicated to be demolished.



The view is intended to show demolition, and the view's Phase is set to New Construction. How should the designer indicate that the

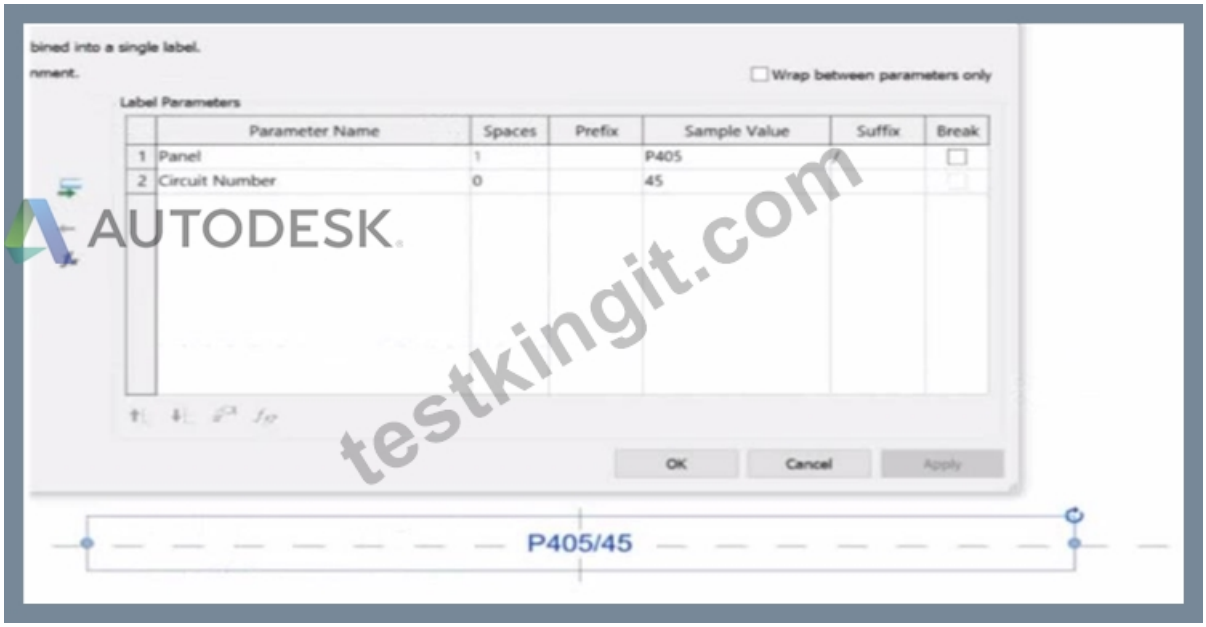
receptacle must also be demolished?

- A. Set the receptacle parameter Phase Demolished to Demolition.
- B. Add a Demolition phase, then set the receptacle parameter Phase Demolished to Demolition.
- C. Set the receptacle's type parameter Match Phasing to Host.
- D. Set the receptacle parameter Phase Demolished to New Construction.

Answer: D

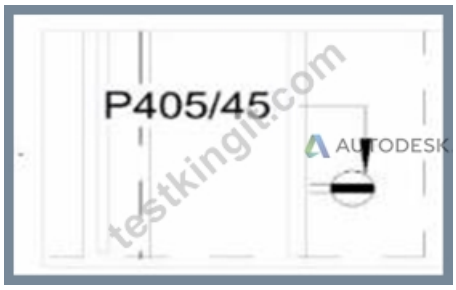
Explanation:
In Autodesk Revit, phasing allows designers to track existing, demolished, and new elements across different project stages. Every model element includes two key phasing parameters:
Phase Created - defines when the element was built or introduced.
Phase Demolished - defines when the element is removed or demolished.
In the provided exhibits:
The project contains two phases: Existing and New Construction.
The receptacle's Phase Created parameter is set to Existing, indicating it belongs to the pre-existing building condition.
The architectural wall hosting the receptacle is to be demolished during New Construction.
When a view's Phase is set to New Construction and its Phase Filter is configured to show demolition, only elements whose Phase Demolished equals New Construction will appear as to be demolished. Therefore, the electrical designer must set the receptacle's Phase Demolished value to New Construction so that it graphically displays as a demolished element in the demolition plan.
As explained in the Autodesk Revit MEP User's Guide - Phasing and Coordination:
"Elements created in one phase and demolished in a subsequent phase must have their 'Phase Demolished' parameter set to that later phase to display properly in demolition views." Thus, to correctly coordinate with the demolition of its host wall, the receptacle must be flagged for demolition during New Construction.

NEW QUESTION # 56
Refer to exhibit.



An electrical designer is working on an Electrical Device Panel-Circuit tag. The designer tags a receptacle using the tag properties shown in the exhibit The receptacle is assigned to panel P203 and circuit 2.4.
Which option shows the correct tag?

- A. 

- B. 

- C. 

- D. 

Answer: B

Explanation:
In the exhibit, the Label Parameters for the electrical device tag are configured as follows:

Parameter	Spaces	Prefix	Sample Value	Suffix	Break
Panel	1	(blank)	P405	/	(unchecked)
Circuit Number	0	(blank)	45	(blank)	(unchecked)

This setup determines how the tag will display in Revit when applied to any device. Specifically:
The Panel parameter (P203 in this case) will be shown first.
A "/" separator follows because it's assigned as the suffix for the Panel parameter.
The Circuit Number (2,4) is displayed immediately after the slash, with no extra spaces or line breaks.
Since the Break column is unchecked, the values will appear on one continuous line, not split across lines.
Revit documentation for tag creation confirms this behavior:
"When defining label parameters in a tag family, the Prefix and Suffix fields control text that appears before or after the parameter value, while the Break checkbox controls whether the text wraps to a new line." Therefore, when the tag is applied to a receptacle on panel P203 and circuit 2,4, the final formatted text will be:
P203/2,4
This corresponds exactly to option B, where the panel and circuit appear on the same line separated by a slash, with no spaces or line breaks.

NEW QUESTION # 57
An electrical designer needs to directly connect panel B to panel A without a breaker. Panel A's load must reflect the entire load from panel B. Which conditions must be met to ensure that panel B is correctly connected to panel A?

- A. Both panels are assigned to the same switchboard, and the subfeed lug breaker option is selected.
- B. Both panels are assigned to the same distribution system, and the connection type is set to feed through lugs.
- C. Both panels are connected via a transformer, and the connection type is set to feed through lugs.
- D. Both panels are assigned to the same distribution system, and the circuit subfeed panel type option is selected.

Answer: B

Explanation:
In Autodesk Revit Electrical Design, when an electrical designer needs to directly connect Panel B to Panel A without a breaker-such that Panel A's load includes the total load from Panel B-the correct method is to configure both panels to use the same distribution system and to set Panel B's connection type to Feed Through Lugs.
According to the Autodesk Revit MEP User Guide, Chapter 17: Electrical Systems, under "Creating Power and Lighting Circuits" and "Panel Properties" sections:
"When connecting panels in series, ensure both devices share the same distribution system. If a subpanel is required to pass its total load through to another panel without circuit protection, specify the connection type as Feed Through Lugs. This connection allows the upstream panel to include the total connected load from the subpanel in its own load summary." The feed-through lugs configuration enables the second panel (Panel B) to be electrically tied to the first (Panel A) as though it were an extension of the same bus. Unlike breaker or main-lug-only setups, the feed-through configuration does not insert a protective breaker between the two panels. Instead, it provides a continuous feeder connection where the parent panel's load schedule automatically aggregates the downstream panel's total load.
This setting is found in Revit's Properties Palette for electrical equipment:
Under Electrical - Circuiting, the designer must ensure both panels use the same Distribution System (e.g., 208Y/120V 3 4W).
Then, under Connection Type, select Feed Through Lugs.
The Smithsonian Facilities Revit Template Electrical Standards Guide also confirms this best practice:
"Feed-through panels are used when a subpanel's total load must be reported in the main distribution panel without additional breakers. Both panels must share identical voltage and phase configurations within the same distribution system." Why the Other Options Are Incorrect:
A . The "subfeed lug breaker" introduces a breaker, contradicting the requirement of no breaker.
B . "Circuit subfeed panel type" is not a standard Revit configuration; Revit uses connection types instead.
D . Transformers alter the voltage distribution; the question specifies a direct connection within the same system.
Therefore, the correct configuration that meets all design and load reflection requirements is:
 C. Both panels are assigned to the same distribution system, and the connection type is set to feed through lugs.
References:
Autodesk Revit MEP User Guide - Chapter 17 "Electrical Systems," Sections: "Creating Power and Lighting Circuits" and "Panel Properties," pp. 420-426 Autodesk Revit Electrical Design Essentials - Topic: "Feed-Through Connections and Subpanel Load Reflection" Smithsonian Facilities Revit Template User's Guide - Section 9.3 "Panel Configuration and Feed-Through Connections," p. 96

NEW QUESTION # 58
How can an electrical designer see changes from other users without saving their own work to the central model?

- A. Reload Latest
- B. Relinquish All Mine
- C. Manage Worksets
- D. Worksharing Display

Answer: A

Explanation:
In Autodesk Revit, particularly for electrical and MEP design disciplines using a workshared model, the command "Reload Latest" allows a designer to see changes made by other users without saving or publishing their own work to the central model. This tool ensures that while the designer continues to work locally, their environment stays updated with the latest modifications made by colleagues.
According to the Autodesk Revit MEP User Guide (Chapter 54 - Working in a Team), under the section Loading Updates from the Central Model, it states:
"As you work, you can see the changes other team members have made to the project after they have been synchronized with the central model. You can load updates from the central model without publishing your changes to the central model.
In your local file, click Collaborate tab ➤ Synchronize panel ➤ (Reload Latest)." This confirms that the Reload Latest command refreshes your local file with any modifications from the central file that others have synchronized, but it does not send your local changes back. It is a critical feature for coordination in a team environment, especially when multiple designers-such as electrical,

mechanical, and structural engineers-are contributing simultaneously to a shared BIM model.
By contrast:
A . Relinquish All Mine only releases ownership of elements but doesn't update the local model.
C . Manage Worksets is for controlling visibility and editability of worksets.
D . Worksharing Display visually identifies ownership and status but doesn't refresh model data.
Therefore, when an electrical designer needs to review updates from others (for example, when a lighting layout needs coordination with architectural ceiling adjustments), the proper workflow is to use Reload Latest, ensuring all new information from the central model appears instantly without saving or affecting their current unsaved edits.
References:
Autodesk Revit MEP 2011 User's Guide, Chapter 54: Working in a Team, "Loading Updates from the Central Model," pp. 1332-1333.
Autodesk Revit Structure User's Guide, Chapter 49: Working in a Team, "Loading Updates from the Central Model," p. 1230.
Smithsonian Revit Template Guide (2021), Section 6.3.1 How Worksharing Works, confirming synchronization and reloading behavior for shared Revit environments.

NEW QUESTION # 59
An electrical designer Is working on a workshared model.
Which two worksharing display settings can the designer use to visualize model elements that have no ownership? (Select two.)

- A. Worksets
- B. Owners
- C. Gray Inactive Worksets
- D. Model Updates
- E. Checkout Status

Answer: B,E

Explanation:
When working in a workshared Revit model, elements without ownership can be visually identified using Worksharing Display Settings.
As per Revit MEP Worksharing Guide - Worksharing Display Modes section:
"Worksharing display modes include options such as Checkout Status, Owners, and Worksets.
The Checkout Status mode shows elements that are not owned or are available for editing.
The Owners mode highlights elements based on who owns them, allowing unowned elements to appear as 'none.'" Therefore:
□ B. Checkout Status - shows elements that are editable or not owned.
□ E. Owners - displays which elements are owned and highlights those without ownership.
Incorrect options:
A . Worksets: Shows which workset an element belongs to, not ownership.
C . Gray Inactive Worksets: Only grays out inactive worksets.
D . Model Updates: Not a valid worksharing display setting.

NEW QUESTION # 60
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