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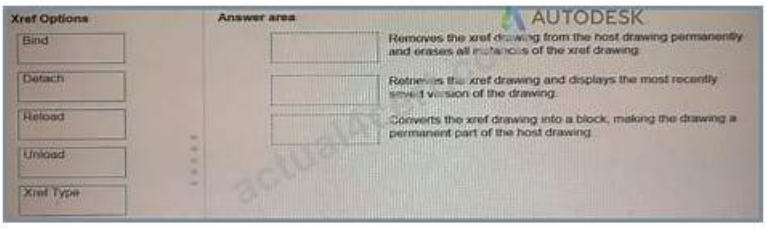

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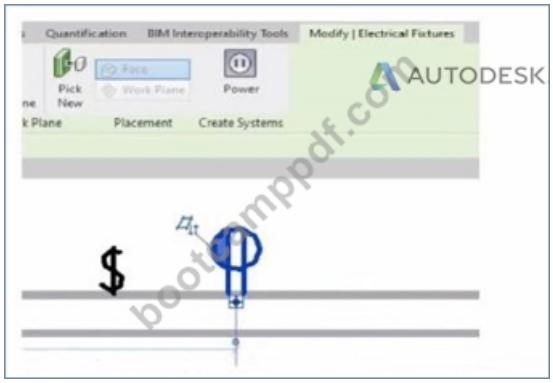
Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

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	• 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 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	• 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	• 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.

Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q27-Q32):

NEW QUESTION # 27
Refer to exhibit.



An electrical designer is circuiting a dwelling unit. The receptacle (electrical fixture) shown must be controlled by the switch (lighting device) shown to switch a plug-in lamp When the receptacle is selected, Revit does not provide an option to add the receptacle to a switch system.
What is causing this issue?

- A. The switch and the receptacle are not on the same circuit
- B. Only lighting fixtures can be added to switch systems.
- C. A switch system has not yet been created.
- D. The receptacle's "Switchable" option Is not selected within the family editor.

Answer: D

Explanation:
In Autodesk Revit Electrical Design, when an electrical designer attempts to control a receptacle (an Electrical Fixture family) with a switch (a Lighting Device family) as part of a switch system, Revit will only allow this connection if the receptacle's family has been configured as Switchable within the Family Editor.
According to the Autodesk Revit MEP User's Guide (Chapter 17 - "Electrical Systems"):
"Revit allows you to add elements such as lighting fixtures or receptacles to a switch system only if the family includes a switchable connector. The 'Switchable' parameter must be enabled in the Family Editor to allow this connection." This means that for the receptacle shown in the exhibit to appear as an available component for switching, the Electrical Connector within its family must have the Switchable property checked. This parameter is found under:
Family Editor → Select Connector → Properties Palette → Electrical - Data → Switchable.
If this option is not enabled, Revit treats the receptacle as a standard unswitched outlet and will not display it in the switch system creation dialog. Once the option is checked, the designer can reload the family into the project and associate it with a switch system normally.

Additionally, the Smithsonian Facilities Revit Template User's Guide explains this concept as follows:
"To associate receptacles with lighting switches, ensure that the receptacle family has a switchable connector. Without this setting, the device will not appear as an assignable component to a switch system." This distinction is important in residential electrical modeling, where switched receptacles are common for plug-in lamps. Lighting circuits can include both Lighting Fixtures and Switchable Receptacles when the family configuration supports it.
Incorrect Options Explanation:
A . A switch system not being created is irrelevant - the issue occurs before system creation.
C . Being on the same circuit doesn't affect switchability; it affects electrical load connection.
D . Incorrect - Revit supports switchable receptacles if properly configured.
Therefore, the correct answer is B. The receptacle's "Switchable" option is not selected within the family editor.
References:
Autodesk Revit MEP User's Guide - Chapter 17 "Electrical Systems," pp. 417-421 Autodesk Revit Electrical Design Essentials - Section "Creating and Editing Electrical Fixtures and Switch Systems" Smithsonian Facilities Revit Template User's Guide - Section 8.4 "Switchable Receptacle Family Standards," p. 89

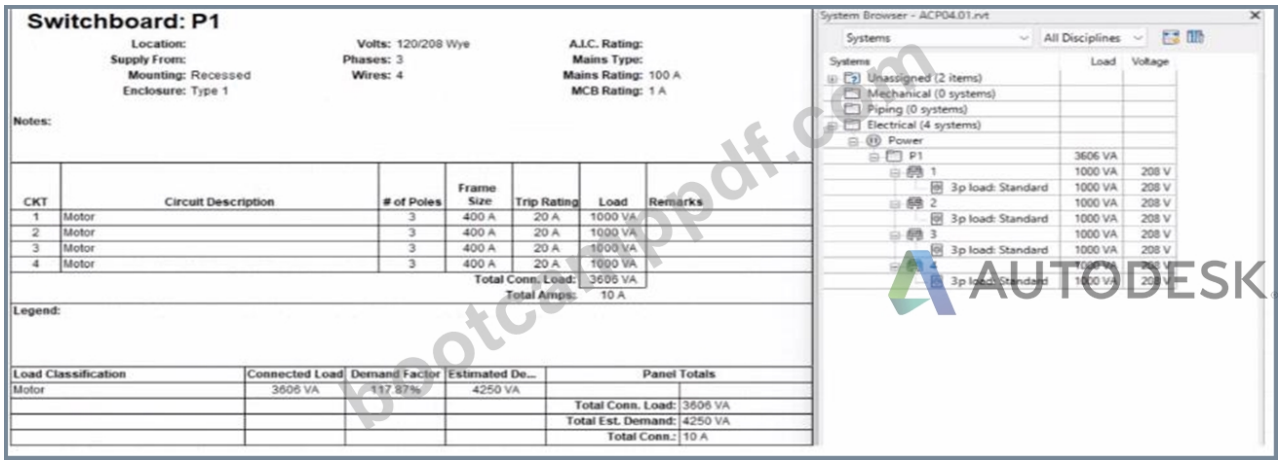
NEW QUESTION # 28
An electrical designer is working on a project with multiple buildings. The designer wants to organize the Project Browser by building For example, all views related to Building A will be sorted under Building A. and all views related to Building B will be sorted under Building B.
The 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 reporting parameter
- C. A family parameter
- D. A global 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 # 29
Refer to exhibit.



Switchboard: P1

Location:
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	Motor	3	400 A	20 A	1000 VA	
2	Motor	3	400 A	20 A	1000 VA	
3	Motor	3	400 A	20 A	1000 VA	
4	Motor	3	400 A	20 A	1000 VA	
				Total Conn. Load:	3606 VA	
				Total Amps:	10 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated De...	Panel Totals	
Motor	3606 VA	117.87%	4250 VA		
				Total Conn. Load:	3606 VA
				Total Est. Demand:	4250 VA
				Total Conn.:	10 A

System Browser - ACP04.01.rvt

Systems | All Disciplines

Systems	Load	Voltage
Unassigned (2 items)		
Mechanical (0 systems)		
Piping (0 systems)		
Electrical (4 systems)		
Power		
P1	3606 VA	
1	1000 VA	208 V
3p load: Standard	1000 VA	208 V
2	1000 VA	208 V
3p load: Standard	1000 VA	208 V
3	1000 VA	208 V
3p load: Standard	1000 VA	208 V
4	1000 VA	208 V
3p load: Standard	1000 VA	208 V

An electrical designer expects the total connected load on the switchboard to be 4000VA. but Revit Indicates a total connected load of 3606VA. What Is the cause of the discrepancy?

- A. Sum true load and reactive load is selected in Electrical Settings.
- B. Load is connected through the switchboard's feed through lugs.
- C. The Motor demand factor is configured to adjust the connected load.
- D. The connected loads are set to a different voltage than the switchboard.

Answer: C

Explanation:
In the exhibit, the designer expects the total connected load to equal the sum of the 4 motor loads:
4 motors × 1000 VA each = 4000 VA expected
However, Revit is showing a Total Connected Load of 3606 VA instead.
This difference occurs because Revit applies Motor Demand Factors automatically when a load classification is set to "Motor."
Demand factors modify the total connected load based on electrical engineering rules.
Revit documentation confirms:
"Assign demand factors to load classifications."
"Demand loads can be shown on panel schedules."
In the exhibit, the Load Classification shows Motor with a Demand Factor of 117.87%, which modifies the connected load values in the switchboard totals.
Revit is therefore calculating the effective connected load based on the applied demand factor, not a simple arithmetic sum. That is why the panel's connected load number ≠ 4000 VA.

NEW QUESTION # 30
An electrical designer needs to add spaces to a model displaying the architectural room name and number. What should the designer do before creating the spaces?

- A. Select Save Positions for the architectural links in the Manage Links dialog.
- B. Change the architectural model display settings to By Host View,
- C. Select Room Bounding from the architectural link's type properties.
- D. Use Transfer Project Standards to Import rooms from the architectural model.

Answer: C

Explanation:
Before placing spaces in an MEP model that should reflect architectural room names and numbers, the linked architectural model must be set to Room Bounding. This ensures that Revit recognizes the architectural walls and room boundaries, allowing the spaces to reference and display room information correctly.
As the Revit MEP documentation explains:
"Turns on the Room Bounding parameter for the linked model. This step ensures that the Revit MEP project recognizes room-bounding elements in the Revit Architecture project."
"The spaces use the room boundaries defined by the Revit Architecture project." Additionally, the section Using Room Boundaries in a Linked Model details the procedure:
"In a plan view of the host project, select the linked model symbol → Click Modify | RVT Links tab ➤ Properties panel ➤ (Type Properties). In the Type Properties dialog, select Room Bounding." Once this setting is enabled, Revit MEP automatically detects

the architectural rooms, enabling the designer to place spaces that inherit the architectural room name and number.

NEW QUESTION # 31
Refer to exhibit.

An electrical designer tries to place a generic annotation family in a data device family. The designer receives the error message as shown. What should the designer do?

- A. Change the Detail Level to Coarse.
- B. Set the view to the Ref. Level.
- C. Select the Maintain Annotation Orientation parameter checkbox
- D. Edit the generic annotation family and set it to Shared.

Answer: D

Explanation:
The warning message - "Can't create this kind of element in this view in the current mode" - appears when an electrical designer attempts to place a Generic Annotation family inside a model family (e.g., a data device or electrical fixture) that is not configured to host annotation elements.
According to the Revit Electrical Design documentation, Generic Annotation families are 2D annotation elements, and therefore, cannot be created or viewed in 3D model views unless configured as "Shared." The official guide clarifies:
"You can create generic annotation families and nest them inside host model families so that the annotations display in the project."
However, this only functions correctly if the annotation is enabled to act independently within the host:
"To allow a nested annotation to be visible and editable when placed in a host model family, the nested annotation must be set to Shared before loading it into the host." If the nested annotation is not set to Shared, Revit cannot create or display it in the host's model view, triggering this exact warning.
Thus, the correct workflow is:
Open the Generic Annotation family in the Family Editor.
Go to Family Category and Parameters.
Check the box "Shared" under Family Parameters.
Save and reload the family into the host electrical device family.
Other options-changing view level, detail level, or annotation orientation-do not resolve this placement restriction.

NEW QUESTION # 32
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