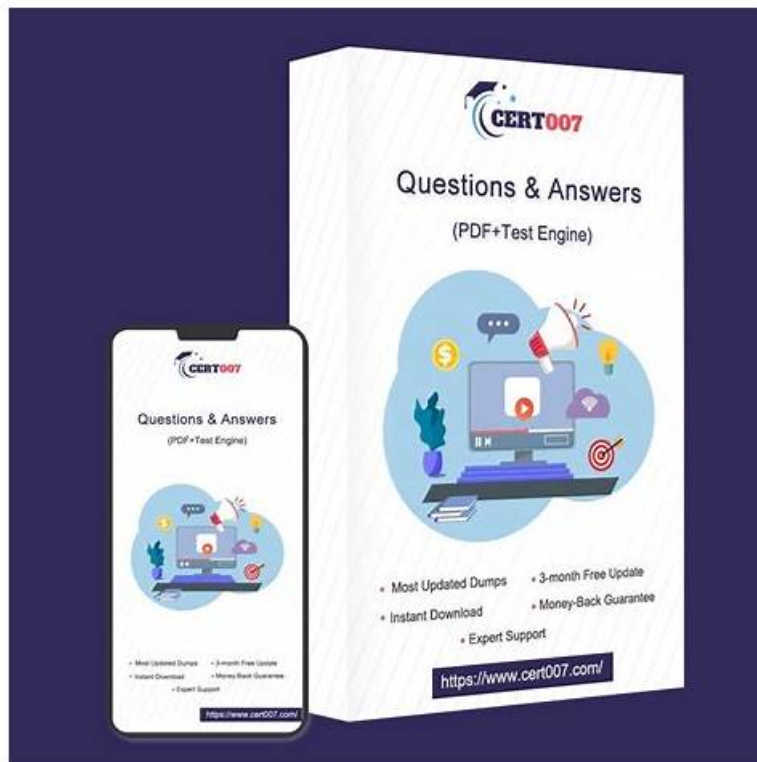


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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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	• 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 5	• 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.

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q31-Q36):

NEW QUESTION # 31

Refer to exhibit.

□

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

Answer: A

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 # 32

Refer to exhibit.

The exhibit is a lighting fixture family in the Family Editor environment and the light source is selected.

An electrical designer has downloaded a photometric web file in IES format from a manufacturer's website for use within this lighting fixture family.

Define the light source's Emit Shape and Light Distribution for use with the photometric web (IES) file. (Select two in the answer area.)

Answer:

Explanation:

NEW QUESTION # 33

Refer to exhibit.

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. Load is connected through the switchboard's feed through lugs.
- B. Sum true load and reactive load is selected in Electrical Settings.
- **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:

$4 \text{ motors} \times 1000 \text{ VA each} = 4000 \text{ VA expected}$

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 $\neq$ 4000 VA.

NEW QUESTION # 34

Refer to exhibits.

(The image Is presented in Imperial units: 1 In = 25 mm (Metric units rounded].) An electrical designer creates a lighting fixture family with the following types and then saves the family.

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

Explanation:

In Autodesk Revit, each type within a family represents a unique combination of parameters such as size, voltage, photometric properties, and construction configuration. When a family is created in the Family Editor, the designer can define multiple Family Types using the Family Types dialog. This interface allows the user to duplicate, rename, or modify type parameters before loading the family into a project.

In the exhibit, the Type Name dropdown list clearly shows two available lighting fixture types:

1x4 - 120

1x4 - 277

These two types appear to represent different voltage configurations of the same 1x4 light fixture format. Since these are the only types visible in the Family Types selection preview, the correct number of family types saved within the family file is two.

Revit's behavior aligns with standard family management described in documentation, which explains that every defined type is listed in the Family Types browser. When a designer saves a family, all defined types are stored and become available for placement in the project environment. Devices can then be selected based on parameters such as voltage or photometric values, which are often driven by electrical design requirements.

The Revit MEP User's Guide explains how type properties and family types are controlled:

"Selection of named items or elements [such as Family Types] are managed through the Properties and Family Types dialogs, allowing multiple variations to exist within a single family."

NEW QUESTION # 35

Refer to exhibit.

□ An electrical designer is working in a view set for Phase 3.

Which elements within this view will be overridden according to the "Temporary" graphic override settings?

- A. Elements that were created and demolished in Phase 2
- B. Elements that were created and demolished in Phase 3
- C. Elements that were created in Phase 1 and demolished in Phase 3
- D. Elements that will be demolished in Phase 4

Answer: B

Explanation:

In Autodesk Revit, phasing is used to represent different stages of a project - for example, existing conditions, demolition, and new construction - all within a single model. Each view is assigned to a specific phase, and elements in that view are displayed according to their phase status (created, existing, demolished, or temporary).

According to the Autodesk Revit User's Guide (Phasing and Phase Filters section):

"Each element in a project has 2 key phase-related parameters:

Phase Created - the phase in which the element was created.

Phase Demolished - the phase in which the element is demolished.

These parameters control how elements display in different views depending on the view's assigned phase and phase filter."

- Revit User's Guide, Chapter: Phasing and Phase Filters

Revit automatically applies Graphic Overrides to display phase statuses. These are defined under Manage tab → Phases → Graphic Overrides. The categories include:

Existing

Demolished

New

Temporary

"Elements that are both created and demolished in the same phase are considered Temporary and display using the Temporary graphic override settings."

- Revit MEP User's Guide, Managing Phases and Graphic Overrides

Applying This to the Exhibit:

In the exhibit, the project includes multiple phases (Phase 1 through Phase 5). The designer is currently working in Phase 3.

Elements created and demolished in the same phase (Phase 3) are displayed as Temporary.

Elements created in earlier phases (e.g., Phase 1) and demolished in the current phase (Phase 3) are displayed as Demolished.

Therefore:

- ### Verified References from Revit Electrical Design Documentation:

"Elements created and demolished in the same phase are shown using the Temporary phase graphic override settings." Autodesk Revit Architecture and MEP Official Study Guide, "Phasing and Phase Filters":

NEW QUESTION # 36

• • • • •

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