

ユニークなRVT_ELEC_01101全真模擬試験と便利なRVT_ELEC_01101テスト内容



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Autodesk RVT_ELEC_01101 認定試験の出題範囲：

トピック	出題範囲
トピック 1	<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.

トピック 2	<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.
トピック 3	<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.
トピック 4	<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.
トピック 5	<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.

>> RVT_ELEC_01101全真模擬試験 <<

検証するRVT_ELEC_01101 | 真実的なRVT_ELEC_01101全真模擬試験試験 | 試験の準備方法Autodesk Certified Professional in Revit for Electrical Designテスト内容

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Autodesk Certified Professional in Revit for Electrical Design 認定 RVT_ELEC_01101 試験問題 (Q43-Q48):

質問 # 43

Refer to exhibit.

The image shows a screenshot of a Revit panel schedule. The table has columns for CKT, Circuit Description, Trip, Poles, Breaker Type, A, B, C, Breaker Type, Poles, Trip, Circuit Description, and CKT. The 'Breaker Type' column is highlighted in yellow. The table contains 23 rows of data, with the first row being a header row. The 'Breaker Type' column is currently empty for all rows.

CKT	Circuit Description	Trip	Poles	Breaker Type	A	B	C	Breaker Type	Poles	Trip	Circuit Description	CKT
1	<Load Name>	<Rating>	<Num>		<val>	<val>			<Num>	<Rating>	<Load Name>	2
3	<Load Name>	<Rating>	<Num>		<val>	<val>			<Num>	<Rating>	<Load Name>	4
5	<Load Name>	<Rating>	<Num>		<val>	<val>	<val>	<val>	<Num>	<Rating>	<Load Name>	6
7	<Load Name>	<Rating>	<Num>		<val>	<val>			<Num>	<Rating>	<Load Name>	8
9	<Load Name>	<Rating>	<Num>		<val>	<val>	<val>	<val>	<Num>	<Rating>	<Load Name>	10
11	<Load Name>	<Rating>	<Num>		<val>	<val>	<val>	<val>	<Num>	<Rating>	<Load Name>	12
13	<Load Name>	<Rating>	<Num>		<val>	<val>			<Num>	<Rating>	<Load Name>	14
15	<Load Name>	<Rating>	<Num>		<val>	<val>	<val>	<val>	<Num>	<Rating>	<Load Name>	16
17	<Load Name>	<Rating>	<Num>		<val>	<val>	<val>	<val>	<Num>	<Rating>	<Load Name>	18
19	<Load Name>	<Rating>	<Num>		<val>	<val>	<val>	<val>	<Num>	<Rating>	<Load Name>	20
21	<Load Name>	<Rating>	<Num>		<val>	<val>	<val>	<val>	<Num>	<Rating>	<Load Name>	22
23	<Load Name>	<Rating>	<Num>		<val>	<val>	<val>	<val>	<Num>	<Rating>	<Load Name>	24

An electrical designer wants to report Breaker Type for each breaker in a panel schedule. The designer adds a column to the schedule as shown (and highlighted) in the image.

Which type of parameter should the designer create to add to the column?

- A. A Project Parameter assigned to Electrical Circuits.
- B. A Shared Parameter in the Electrical Fixture families.
- C. A Shared Parameter in the Electrical Equipment families.
- D. A Project Parameter assigned to Electrical Equipment.

正解: A

解説:

In Autodesk Revit Electrical Design, panel schedules display data that originates from the Electrical Circuits category, not directly from the Electrical Equipment or Electrical Fixtures families. Each circuit in a panel schedule represents an instance of an Electrical Circuit object within Revit's system-based MEP structure. Therefore, to add an additional field like Breaker Type, the parameter must be created and assigned specifically to the Electrical Circuits category.

According to the Revit MEP User's Guide - Chapter 50 "Electrical Systems and Panel Schedules":

"Panel schedules display parameters that are associated with electrical circuits, including load names, rating, poles, and breaker information. To include additional circuit information in a panel schedule, create a Project Parameter assigned to the Electrical Circuits category." This means the designer should:

Open Manage → Project Parameters Add

Create a Project Parameter named Breaker Type

Assign it to the Electrical Circuits category

Set it to appear in schedules and tags, ensuring it becomes available for use in the panel schedule template As noted in the Smithsonian Facilities Revit Template User's Guide:

"Custom circuit data fields such as 'Breaker Type' or 'Wire Tag' are defined as project parameters applied to the Electrical Circuits category so they can be displayed in panel schedule templates." Incorrect options:

A. Shared Parameter in Electrical Equipment - Electrical Equipment holds overall panel data (e.g., Mains Rating, Voltage) but not per-circuit data.

B. Shared Parameter in Electrical Fixture families - Fixtures are individual load devices, not part of the circuit's breaker assignment.

D. Project Parameter assigned to Electrical Equipment - would apply to the panelboard as a whole, not to individual breakers in circuits.

Thus, the correct answer is C. Project Parameter assigned to Electrical Circuits, ensuring each breaker in the panel schedule can display its type individually and dynamically.

References:

Autodesk Revit MEP User's Guide - Chapter 50 "Electrical Systems and Panel Schedules," pp. 1134-1142 Smithsonian Facilities

Revit Template User's Guide - Section 8.7 "Electrical Panel Schedule Customization," p. 91 Autodesk Revit Electrical Design Essentials - "Custom Circuit Parameters and Schedule Configuration"

質問 # 44

How can an arrowhead be added to a lag leader line?

- A. Enable Leader Arrowhead in the instance properties.
- B. Select the tag and enable Leader Line in the Properties palette
- C. Choose an arrow type for the Leader Arrowhead in the Type Properties.
- D. Change the Leader Type to Free End.

正解: C

解説:

In Autodesk Revit for Electrical Design, arrowheads on leader lines-such as those used with tags, text notes, or annotations-are controlled through Type Properties, not through instance properties or free-end options.

According to the Revit MEP User's Guide - Annotating Chapter (Chapter 47 and 42), the section "Modifying Tags" explains:

"Select the tag, and on the Properties palette, click (Edit Type). In the Type Properties dialog, select a value for Leader Arrowhead to add an arrowhead to the leader line." This confirms that the arrowhead is defined at the type level, meaning any change applies to all tags or text notes of that annotation type throughout the project. The Leader Arrowhead property allows the designer to choose from predefined arrowhead styles (like "Filled Arrow," "Dot," "Tick Mark," etc.), which are defined globally under:

Manage tab → Settings panel → Additional Settings → Arrowheads.

Furthermore, the document specifies under "Leader Arrowhead Properties":

"Sets the arrowhead shape on the leader line. The value is the name of the arrowhead style defined by the Arrowheads tool." This behavior applies to all annotation categories, including text notes, keynotes, material tags, and electrical device tags, maintaining consistency across all view types in an electrical project.

Therefore, Option C is the correct answer because arrowheads are configured via Type Properties, while the other options are inaccurate:

Option A (Free End) only defines leader attachment behavior.

Option B (Instance properties) does not include a "Leader Arrowhead" toggle.

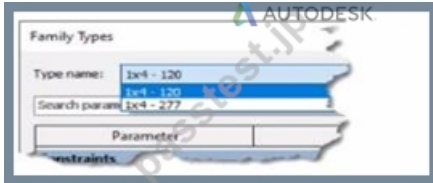
Option D (Enable Leader Line) only adds or removes a leader line, not the arrowhead style.

References:

Autodesk Revit MEP User's Guide - Chapter 47 "Annotating," pp. 1040-1055 Autodesk Revit MEP User's Guide - Chapter 42 "Text Notes and Tags," pp. 936-949 Autodesk Revit Electrical Design Essentials - "Leader Arrowhead Properties and Annotation Standards"

質問 # 45

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

正解: A

解説:

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.

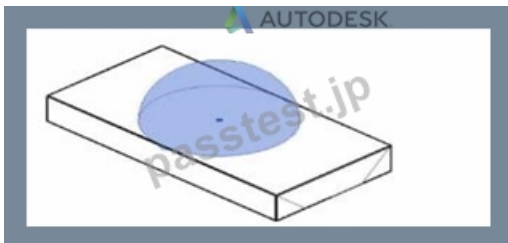
Revit's behavior aligns with standard family management described in documentation, which explains that every defined type is listed in the Family Types browser. When a designer saves a family, all defined types are stored and become available for placement in the project environment. Devices can then 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."

質問 # 46

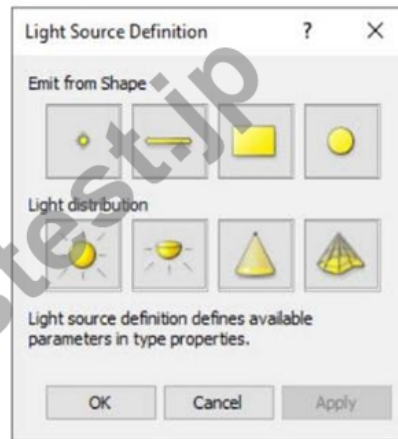
Refer to exhibit.



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

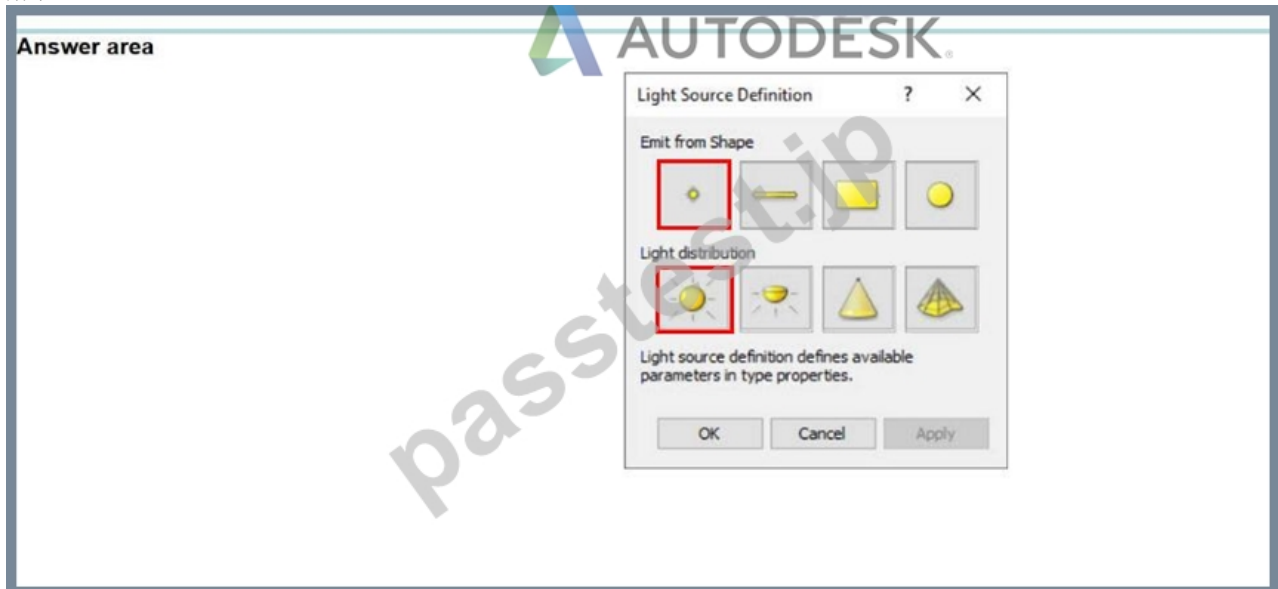
An electrical designer has downloaded a photometric web tile in IES format from a manufacturer's website for use within this lighting fixture family.

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



正解:

解説:



質問 # 47

Which condition applies when placing a ceiling-hosted light fixture?

- A. The light must be hosted to the ceiling reference plane.
- B. The light must be snapped to the ceiling using nodes.
- C. The light must be defined in the ceiling layout pattern.
- **D. The light must be placed in the same model as the ceiling**

正解: D

解説:

According to Autodesk's Revit MEP User's Guide (Revit MEP 2011, Chapter 17 "Electrical Systems"), lighting fixtures in Revit are hosted components-this means they rely on another model element (like a wall, ceiling, or floor) to exist. Specifically, ceiling-hosted lighting fixtures must be placed on a ceiling element that is within the same model file in which the light is being placed.

From the document:

"Most lighting fixtures are hosted components that must be placed on a host component (a ceiling or wall). To place a lighting fixture in a view:

In the Project Browser, expand Views (all) > Floor Plans, and double-click the view where you want to place the lighting fixture.

Click Home tab > Electrical panel > Lighting Fixture.

In the Type Selector, select a fixture type.

On the ribbon, verify that Tag on Placement is selected to automatically tag the fixture.

Move the cursor over the drawing area.

The lighting fixture is previewed as you move the cursor over a valid host or location in the drawing area.

Click to place the lighting fixture."

- Revit MEP User's Guide, Chapter 17: Electrical Systems, p. 402

Additionally, in the Rendering section of the same guide, Autodesk clearly defines hosting relationships in lighting fixture templates:

"The names of all lighting fixture templates include the words Lighting Fixture. Be sure to select the appropriate template for the type of lighting fixture that you want to create. For example, to create a ceiling-based fixture for metric projects, use Metric Lighting Fixture ceiling based.rft.

Revit MEP opens the Family Editor. The template defines reference planes and a light source. For ceiling-based and wall-based fixtures, the template includes a ceiling or wall to host the fixture."

- Revit MEP User's Guide, Chapter 50: Rendering, p. 1148

This indicates that the ceiling host must physically exist within the same model environment. If the ceiling is part of a linked architectural model, the lighting fixture cannot attach to it directly because Revit does not allow cross-model hosting. In such cases, a work plane-based or face-based light family must be used instead.

Therefore, among the given options:

A (snapping using nodes) and B (hosted to a ceiling reference plane) are partial actions within a placement workflow, not hosting conditions.

C (defined in the ceiling layout pattern) is incorrect because pattern layout does not determine hosting.

D (placed in the same model as the ceiling) is correct since Revit requires the ceiling host and the light fixture to exist in the same project file for the hosting relationship to function.

Verified Reference Extracts from Revit for Electrical Design Documentation:

Autodesk Revit MEP User's Guide (2011), Chapter 17: Electrical Systems, p. 402 - "Most lighting fixtures are hosted components that must be placed on a host component (a ceiling or wall)." Autodesk Revit MEP User's Guide (2011), Chapter 50: Rendering, p. 1148 - "For ceiling-based and wall-based fixtures, the template includes a ceiling or wall to host the fixture." Revit MEP Family Templates Description - Metric Lighting Fixture ceiling based.rft defines the ceiling as the hosting reference within the same model environment.

質問 # 48

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