Quiz 2026 Perfect RVT_ELEC_01101: Autodesk Certified Professional in Revit for Electrical Design Test Question

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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	• 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	• 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.

Professional RVT_ELEC_01101 Test Question for Real Exam

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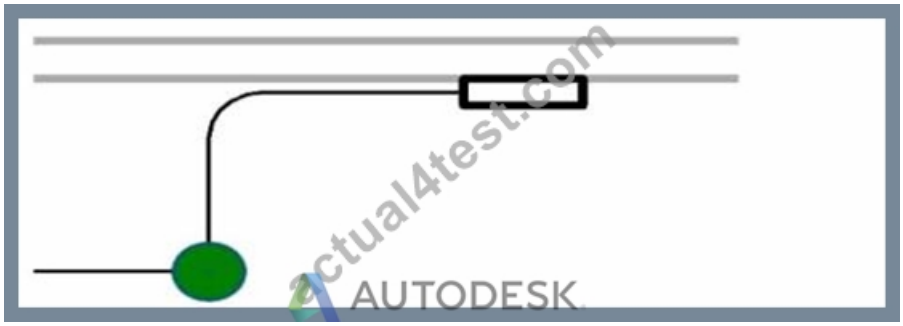
Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q14-Q19):

NEW QUESTION # 14
Refer to the exhibit.



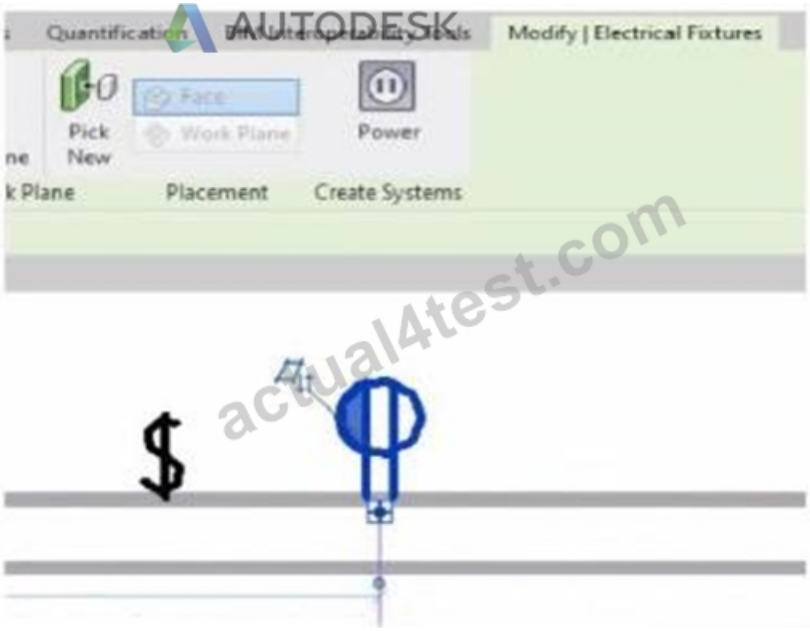
- A. Properties > Edit Type > Single Line Symbology
- B. Object Styles > Conduits > Rise/Drop > Single Line Symbology
- C. Project Browser > Conduits > Conduits with Fittings > Single Line Symbology
- D. Electrical Settings > Conduit Settings > Rise Drop > Single Line Symbology

Answer: A

Explanation:
In Autodesk Revit MEP, conduit systems can be represented in plan views using either detailed or single-line symbology. The Single Line Symbology display setting is used for schematic or simplified representations - often in electrical riser or distribution diagrams. The setting that controls whether conduits display in single-line or detailed form is found in the Type Properties of the conduit family, not in Object Styles or Electrical Settings. Specifically, it is accessed by selecting a conduit in the model and navigating to:
Properties Palette → Edit Type → Single Line Symbology

From there, users can define how fittings, rise/drop symbols, and conduits themselves are represented in single-line schematic mode. Adjusting this type parameter affects the graphical display for that conduit type throughout all applicable views where single-line graphics are used.
According to the Autodesk Revit MEP User's Guide (Electrical Systems → Conduit Systems section):
"The conduit type properties define the graphical representation in single-line drawings. By editing the Single Line Symbology in the Type Properties dialog, designers control how the conduit and fittings appear in plan views." This parameter is especially important in electrical documentation where simplified representations are required for coordination and electrical diagrams.

NEW QUESTION # 15
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. A switch system has not yet been created.
- B. Only lighting fixtures can be added to switch systems.
- C. The receptacle's "Switchable" option Is not selected within the family editor.
- D. The switch and the receptacle are not on the same circuit

Answer: C

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 # 16
What two ways can an electrical designer copy a cable tray type from a project to a template? (Select two.)

- A. 1. Open both the project and the template in the same Revit session.
  2. In the project, select the cable tray and click Edit Family.
  3. Click Load into Project and select the template to load the family into.
- B. 1 Open both the project and the template in the same Revit session.
  2. In the template, activate Transfer Project Standards.
  3. Choose to copy from the project and then select Cable Tray Types.
- C. 1. Open the project and the template in separate Revit sessions.
  2. In the template, activate Transfer Project Standards.
  3. Choose to copy from the project and then select Cable Tray Types.
- D. 1. Open the project and the template In separate Revit sessions.
  2. In the project, copy the cable tray to the clipboard.
  3. Switch to the template and paste the cable tray in a view.
- E. 1. Open both the project and the template in the same Revit session.
  2. In the project, copy the cable tray to the clipboard.
  3. Switch to the template and paste the cable tray in a view.

Answer: B,E

Explanation:
In Autodesk Revit for Electrical Design, there are two correct and officially supported methods to transfer or copy Cable Tray Types (including sizes, materials, and type properties) from an existing project into a template file (.rte). These methods ensure that all type definitions, fittings, and related MEP settings are preserved.
 Option B (Clipboard Copy within the same Revit session)
1. Open both the project and the template in the same Revit session.
2. In the project, copy the cable tray to the clipboard.
3. Switch to the template and paste the cable tray in a view.
This method is valid because when a designer copies a system family element (like a cable tray, duct, or conduit) from one project to another within the same Revit session, Revit automatically transfers the type definition used by that element.
According to the Revit MEP User's Guide, Chapter 17 - Electrical Systems:
"Copying a cable tray from one project to another carries its type properties with it, including size, material, and fittings, as Revit automatically loads the associated system family definition." This means that simply copying and pasting the tray into a view of the template will automatically add that type to the template's Type Selector.
 Option C (Transfer Project Standards)
1. Open both the project and the template in the same Revit session.
2. In the template, activate Transfer Project Standards.
3. Choose to copy from the project and then select Cable Tray Types.
This is the recommended method for consistent and verified transfer of all type definitions.
From the same guide under Panel Schedule Templates and System Types Management:
"Use Transfer Project Standards to copy system family types, such as Cable Tray Types, Conduit Types, and related MEP settings, between projects or into templates." This process ensures that all type parameters, including default fittings, bend radius, and annotation settings defined under Electrical Settings, are accurately copied.
References:
Autodesk Revit MEP User's Guide - Chapter 17 "Electrical Systems," pp. 407-409 (Cable Tray Management and Transfer Standards) Autodesk Revit MEP 2011 What's New - Section "Copy Styles Using Transfer Project Standards" Smithsonian Facilities Revit Template User's Guide - "Transferring MEP Types into Templates," pp. 68-71

NEW QUESTION # 17
Refer to exhibit.
(The image is presented in Imperial units: 1 In = 25 mm (Metric units rounded).)

In the space properties for the space, the Lighting Calculation Luminaire Plane is Not Computed. What is causing this issue?

- A. The lights in this space are not circuited.
- B. No lights are placed in the space.
- C. Lights are at different elevations in the same space.
- D. The lighting fixtures are missing an IES file.

Answer: B

Explanation:
The parameter "Lighting Calculation Luminaire Plane: Not Computed" in the Space Properties dialog appears when Revit cannot perform a lighting calculation because no valid lighting fixtures are present within that defined space.
According to the Autodesk Revit MEP User's Guide (Chapter: Spaces and Lighting Analysis):
"Lighting calculations are performed based on the luminaire data available in the space. If no light fixtures are present, the parameter 'Lighting Calculation Luminaire Plane' displays as 'Not Computed'. Revit requires at least one hosted or ceiling-mounted lighting fixture with a valid light source to calculate illumination." In this case, although the space has defined reflectance values (ceiling, wall, and floor) and a lighting calculation workplane height (2'-6"), Revit cannot compute the Luminaire Plane because the software has no lighting geometry to reference for the photometric analysis.
Explanation of incorrect options:
A . Missing IES file: This would cause inaccurate photometric output, but not "Not Computed." C . Lights not circuited: Circuiting affects load summaries, not lighting calculations.
D . Lights at different elevations: Revit still computes the average luminaire plane even with varied fixture heights.
Thus, the lighting calculation is not computed simply because no lighting fixtures are placed in the space.
References:
Autodesk Revit MEP 2011 User's Guide, Chapter 46: Spaces and Lighting Analysis, pp. 1064-1068.
Autodesk Revit 2021 Electrical Design Guide, Lighting Analysis Parameters.
Smithsonian Facilities Revit Template User's Guide (2021), Section 8.7 - Lighting Performance Parameters in Spaces.

NEW QUESTION # 18
An electrical designer wants to add a parameter to a lighting fixture schedule without editing the families. Which parameter type should the designer use?

- A. Schedule parameter
- B. Family parameter
- C. Global parameter
- D. Project parameter

Answer: D

Explanation:
In Revit Electrical Design workflows, when a designer wishes to add a parameter to a lighting fixture schedule without editing the families themselves, the proper approach is to use a Project Parameter.
The Revit MEP documentation clearly explains:
"To add a custom field to a schedule, you can create a custom parameter using the Parameter Properties dialog. Under Parameter Type, select Project parameter." This method links the parameter directly to the project and to all instances of the specified category (in this case, Lighting Fixtures), allowing it to appear in the schedule automatically without requiring any modification to the family files (.RFA).
In contrast:

Family Parameters apply only within the family file and are not schedulable across multiple families.
Global Parameters control dimensional or relational constraints, not schedule data.
Reporting Parameters are read-only and extract model information; they cannot be manually added to schedules.
Revit's scheduling workflow defines this process:
"On the Fields tab of the Sheet List Properties dialog, click Add Parameter... Under Parameter Type, select Project parameter."
This same mechanism applies to lighting fixture schedules, as schedules and sheet lists share parameter structures in Revit. The new project parameter can then be sorted, filtered, and displayed in the schedule view for documentation or tagging purposes.
References:
Autodesk Revit MEP User's Guide - Chapter 49 "Preparing Construction Documents," pp. 1126-1128 Autodesk Revit Parameters Overview - "Project Parameters" and "Shared Parameters," pp. 1541-1543 Autodesk Revit Electrical Design Essentials - Schedule and Parameter Management Section

NEW QUESTION # 19
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