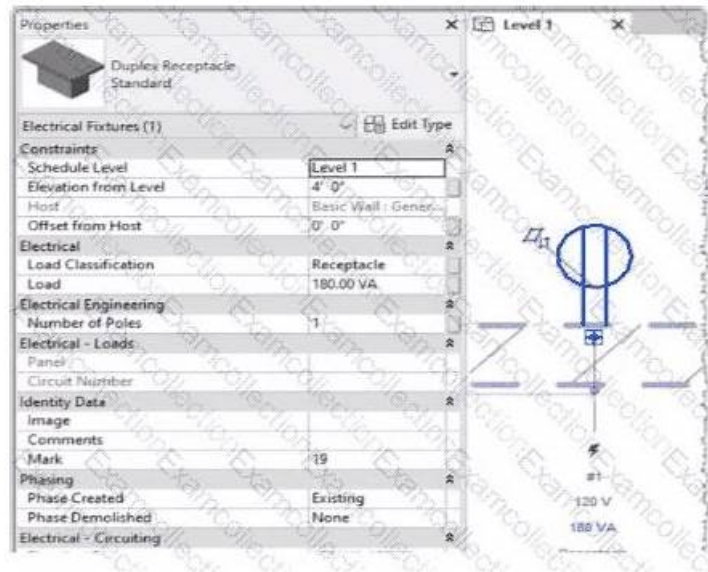


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## Autodesk RVT\_ELEC\_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>

Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

>> RVT\_ELEC\_01101 Valid Exam Answers <<

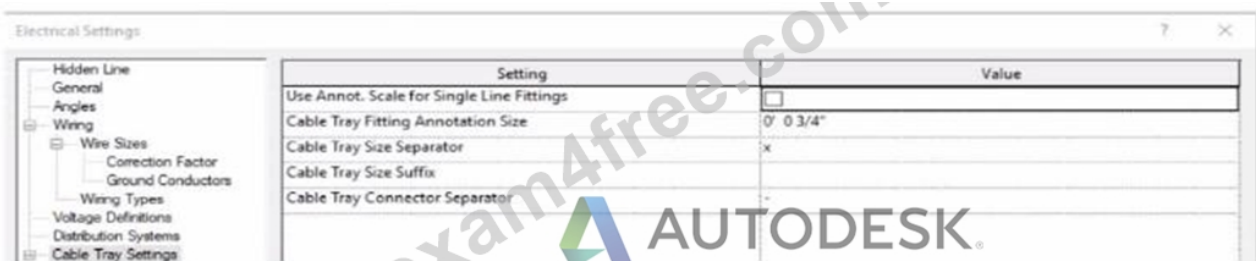
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### Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q34-Q39):

#### NEW QUESTION # 34

Refer to the exhibit.



An electrical designer models a cable tray in a project and decides to check the box (or Use Annot. Scale for Single Line Fittings) and change the Cable Tray Fitting Annotation Size to 1/8" (3 mm).

What is the result?

(The image is presented in Imperial units: 1 In = 25 mm (Metric units rounded).)

- A. All cable tray fittings in the project are changed per the new settings.
- B. All cable tray fittings in the project change per the new settings when a view's detail level is set to Fine.
- C. New cable tray fittings use the new settings in views set to 1/8" (3 mm) scale.
- D. New cable tray fittings use the new settings after the change.

**Answer: A**

**Explanation:**

In Autodesk Revit MEP, the Electrical Settings dialog box contains project-wide configuration parameters that affect all electrical systems, including Cable Tray Settings. This dialog allows users to control annotation scales, fitting symbols, and text size for documentation purposes.

The option labeled "Use Annot. Scale for Single Line Fittings" determines whether the cable tray fittings' annotation graphics automatically scale according to the view's annotation scale. When this box is checked, the annotation symbol size for fittings adjusts proportionally to the scale of the view.

Similarly, "Cable Tray Fitting Annotation Size" defines the annotation size for cable tray fittings in single-line representations (schematic views or simplified plan representations). Changing this parameter (for instance, from 3/4" to 1/8") modifies the visual representation globally for all cable tray fittings in the project, since the Electrical Settings dialog is a project-wide configuration, not

a per-instance or per-view override.

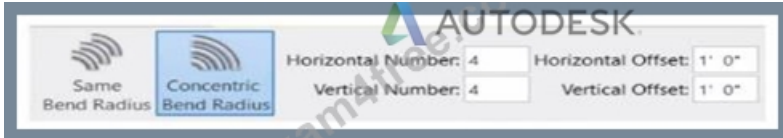
According to the Autodesk Revit MEP User's Guide (Electrical Systems - Cable Trays):

"Electrical settings define how cable trays and conduit are displayed throughout the project. Any change made to these settings, such as annotation size or use of annotation scaling, affects all related fittings and components in the project model." Therefore, once the designer checks the box for Use Annot. Scale for Single Line Fittings and changes the Cable Tray Fitting Annotation Size to 1/8" (3 mm), all cable tray fittings across the entire project will update to reflect these new settings.

### NEW QUESTION # 35

Refer to exhibit.

(The Image is presented in Imperial units: 1 In = 25 mm [Metric units rounded].)



What is the electrical designer trying to do as shown in the exhibit?

- A. Array Conduit
- B. Place Multiple Pipe
- C. Add Cable Tray
- D. Place Parallel Conduits

**Answer: D**

Explanation:

The exhibit shown in the image is taken directly from the Revit MEP Electrical Systems workspace, specifically from the Parallel Conduits command interface. This dialog box appears when the designer activates the Place Parallel Conduits tool in the Systems tab → Electrical panel → Conduit dropdown → Parallel Conduits.

In this interface, the designer can specify:

Horizontal Number / Offset - defines how many conduits will be created horizontally and their spacing.

Vertical Number / Offset - defines how many conduits will be created vertically and their spacing.

Bend Radius Options:

Same Bend Radius - all conduits use identical bend radii.

Concentric Bend Radius - conduits bend concentrically around a common center point.

According to Autodesk's Revit MEP 2011 User's Guide (Chapter 18, Electrical Systems - Conduit Layout):

"The Parallel Conduits tool allows you to create multiple conduits side-by-side at the same time.

You can specify the number of conduits horizontally and vertically, as well as the offset between them.

You can also define whether bends have the same bend radius or concentric bend radii."

- Revit MEP User's Guide, Electrical Systems, Section: Conduit Layout

This tool is used when electrical designers need to route groups of conduits that run in parallel-such as power and data conduits running between panels or equipment racks.

The Concentric Bend Radius option (as shown in the exhibit) ensures all conduit bends share a common center, which is critical for maintaining uniformity in conduit sweeps and avoiding clashes during coordination.

Therefore:

- A. Add Cable Tray - incorrect; the cable tray tool is separate and does not use bend radius options.
- C. Array Conduit - incorrect; arraying is a different geometric function not specific to conduit routing.
- D. Place Multiple Pipe - incorrect; applies to mechanical piping systems, not electrical conduits.

The display of Concentric Bend Radius, Horizontal Number, Vertical Number, and Offset confirms that the designer is using the Parallel Conduit placement tool.

Verified Reference Extracts from Revit Electrical Design Documentation:

Autodesk Revit MEP User's Guide (2011) - Electrical Systems → Conduit Layout → "Parallel Conduits Tool" description.

Autodesk Revit MEP Training Curriculum - Electrical Module, Exercise 6.3 "Placing Parallel Conduits," which illustrates the same interface for bend radius configuration.

### NEW QUESTION # 36

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 connected via a transformer, and the connection type is set to feed through lugs.

- B. Both panels are assigned to the same distribution system, and the connection type is set to feed through lugs.
- C. Both panels are assigned to the same distribution system, and the circuit subfeed panel type option is selected.
- D. Both panels are assigned to the same switchboard, and the subfeed lug breaker 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 # 37

An electrical designer is routing conduit through a building model to coordinate with other disciplines, the electrical designer wants to view selected components in a cropped 3D view.

With the conduit components selected, which tool should the designer use?

- A. Scope Box
- B. Selection Box
- C. Default 3D View
- D. Section Box

**Answer: B**

Explanation:

In Revit Electrical Design, the Selection Box tool is used to quickly isolate and display selected components in a cropped 3D view.

When an electrical designer selects conduits or devices in a model and chooses Selection Box from the Modify tab, Revit automatically generates a 3D view bounded tightly around the selected elements, helping coordinate routing in confined or congested spaces.

According to the Revit MEP User's Guide under "Creating 3D Views":

"Use the Selection Box tool to create a 3D view that isolates selected elements. Revit automatically crops the view extents to the selected geometry." This feature is critical in multidisciplinary coordination because it allows the electrical designer to review specific conduits, cable trays, or lighting paths in context without manually adjusting view boundaries.

In contrast:

Default 3D View (Option B) shows the entire model.

Scope Box (Option C) controls view extents in 2D views or view templates, not instant isolation.

Section Box (Option D) is manually adjusted within an existing 3D view but does not automatically generate a cropped view around selected elements.

Therefore, the Selection Box is the correct and most efficient tool for this task.

References:

Autodesk Revit MEP User's Guide - Chapter 47 "Creating and Managing 3D Views," pp. 1108-1111  
Smithsonian Facilities Revit Template User's Guide - Section 3.6 "Egress Routes and Coordination Views," p. 40  
Autodesk Revit Electrical Design Essentials - 3D Visualization and Coordination Techniques

### NEW QUESTION # 38

Refer to exhibit.

(The image is presented in Imperial units: 1 In = 25 mm (Metric units rounded).)

Electrical - Lighting	
Average Estimated Illumination	0.00 fc
Room Cavity Ratio	0.000000
Lighting Calculation Workplane	2'-6"
Lighting Calculation Luminaire Plane	Not Computed
Ceiling Reflectance	75.00000%
Wall Reflectance	50.00000%
Floor Reflectance	20.00000%
Electrical - Loads	

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

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

**Answer: C**

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 # 39

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