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Autodesk RVT_ELEC_01101 考試大綱：

主題	簡介
主題 1	<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.
主題 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.

主題 3	<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.
主題 4	<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.
主題 5	<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.

>> RVT_ELEC_01101考試題庫 <<

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最新的 Autodesk Certified Professional RVT_ELEC_01101 免費考試真題 (Q53-Q58):

問題 #53

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

- A. 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.
- B. 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.
- C. 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.
- D. 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.
- E. 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.

答案： B,D

解題說明：

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:

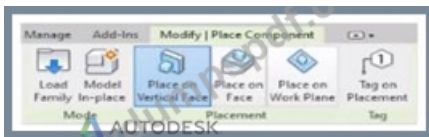
"Use Transfer Project Standards to copy system family types, such as Cable Tray Types, Conduit Types, and related MEP settings, between projects or into templates." This process ensures that all type parameters, including default fittings, bend radius, and annotation settings defined under Electrical 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

問題 #54

Refer to exhibit.



An electrical designer is placing electrical equipment. When the electrical designer selects a component in the contextual ribbon, the Placement panel appears in the contextual ribbon.

Which condition does this Placement panel indicate?

- A. The component was created using a floor-based template.
- **B. The component was created using a wall-based template**
- C. The component is set to use the Always Vertical option
- D. The component was created using a face-based template.

答案: B

解題說明:

The Placement panel shown in the exhibit - with options such as Place on Vertical Face, Place on Face, and Place on Work Plane - is displayed only when the family being placed was created using a wall-hosted (face-based or vertical face-based) template. This indicates that the family is designed to be hosted on a vertical surface, such as a wall, rather than a floor or level.

According to the Autodesk Revit MEP User's Guide (Chapter 44 "Creating and Modifying Families"):

"When placing a hosted family, the placement options depend on the family's host type.

Wall-based families display the Place on Vertical Face option.

Ceiling-based families display Place on Face or Place on Work Plane.

Floor-based families display Place on Work Plane only."

The "Place on Vertical Face" option specifically appears for wall-hosted or face-based components because it allows the user to select a vertical plane, typically representing a wall surface. This confirms that the family template used during creation was Wall-based (commonly "Electrical Equipment - Wall Based.rft" or "Generic Model - Wall Based.rft").

In electrical design, examples of such components include:

Wall-mounted panelboards, switchboards, or transformers.

Receptacles or lighting control devices hosted on walls.

The Smithsonian Facilities Revit Template Guide reinforces this explanation:

"Wall-based components, such as surface-mounted panels, display the Place on Vertical Face option. This confirms the family is wall-hosted and cannot be placed freely on floors or reference planes." Why the Other Options Are Incorrect:

- A. Face-based template: Would show "Place on Face" (not necessarily limited to vertical).
- C. Floor-based template: Displays "Place on Work Plane" only.

D. Always Vertical option: Controls orientation (rotation relative to surface), not placement host type.

Therefore, the Placement panel confirms the component was created using a wall-based family template, allowing it to be attached only to vertical surfaces.

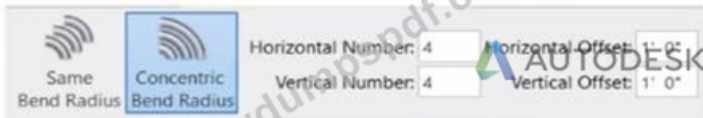
References:

Autodesk Revit MEP User's Guide - Chapter 44 "Creating and Modifying Families," pp. 1028-1032
Smithsonian Facilities Revit Template User's Guide - Section 7.4 "Family Hosting and Placement Behavior," pp. 72-74
Autodesk Revit Electrical Design Essentials - "Wall-Based Equipment and Hosting Parameters in Family Creation"

問題 #55

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

答案: B

解題說明:

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.

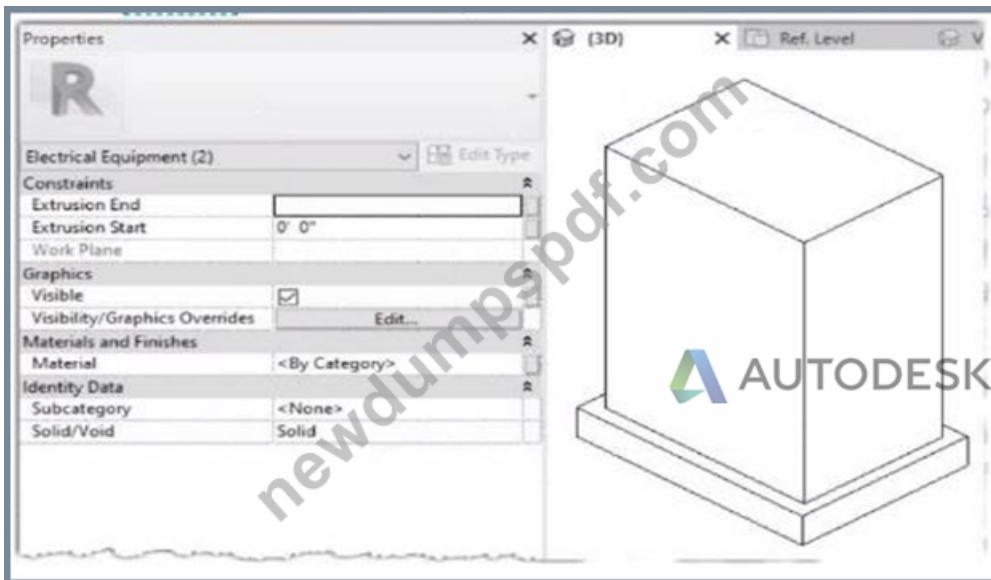
Verified Reference Extracts from Revit Electrical Design Documentation:

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.

問題 #56

Refer to exhibits.



When loaded into a project, the family displays as below in plan view.



The electrical designer is satisfied with the line color and weight of the transformer because it matches all other electrical equipment in the project. However, the designer wants the housekeeping pad to display with different line properties as shown below.



How can this be achieved?

An electrical designer creates a simple family of a transformer with a concrete housekeeping pad using two rectangular extrusions. Both extrusions and their properties within the family editor are shown.

- A. Within the family editor, select the housekeeping pod object and change it from a solid to a void.
- B. Within the family editor, right-click the housekeeping pad object and select Visibility from the context menu. Edit the line properties as desired.
- C. Within the family editor, create a new object style subcategory with the desired properties. Assign that subcategory to the housekeeping pad object.
- D. Within the project, right-click and select Override Graphics in View from the context menu. Edit the line properties as desired.

答案： C

解題說明：

In Autodesk Revit Electrical Design, when customizing a family—such as a transformer with a housekeeping pad—each element within the family can have its own subcategory under the parent category (in this case, Electrical Equipment). Subcategories are critical for controlling line weight, color, and material properties independently in project views and visibility settings.

The issue described is that the transformer and its concrete pad currently share the same default category (Electrical Equipment) and therefore use identical line weights and colors in plan view. The designer wants the housekeeping pad to display differently - for example, with a lighter or dashed outline.

According to the Autodesk Revit MEP User's Guide (Chapter: Creating and Editing Families):

"To control the visibility or graphical appearance of individual components within a family, create a new Object Styles subcategory under the parent category. You can then assign any solid or void geometry in the family to that subcategory. When loaded into a project, the subcategory can be independently controlled through Visibility/Graphics (VG) settings." This is the exact and recommended workflow for differentiating line appearances between elements in the same family.

Steps to achieve this:

In the Family Editor, open Manage tab > Object Styles.

Under the Model Objects tab, click New to create a new subcategory (e.g., "Housekeeping Pad").

Set the desired line weight, color, or material properties.

Select the housekeeping pad extrusion in the model.

In the Properties palette, under Identity Data → Subcategory, choose Housekeeping Pad.

Reload the family into the project.

You can now modify or control its visibility independently in project views.

Why the other options are incorrect:

A . Change to void: A void removes geometry, not graphical appearance.

B . Override Graphics in View: Applies only in a single view, not globally across the project.

D . Visibility from context menu: Controls whether the object is visible, not its line properties.

Thus, the most efficient, parametric, and Revit-standard method is to use subcategories within the family to apply distinct graphical controls.

References:

Autodesk Revit MEP 2011 User's Guide, Chapter 53: Creating Families - Managing Object Styles, pp. 1248-1251.

Autodesk Revit Architecture 2020 Help, "Assigning Geometry to Subcategories in Families." Smithsonian Facilities Revit Template User's Guide (2021), Section 8.4.1 - Electrical Equipment Family Standards and Subcategories.

問題 #57

Refer to exhibit.



An electrical designer wants to place electrical equipment on the pad.

How should the component be aligned to the pad before placement?

- A. Place the cursor over an edge of the object and then press Spacebar.
- B. Start the Align tool. tab to select the object edge, and then select the equipment edge.
- C. Start the Align tool and select the edges to be aligned.
- D. Place the cursor anywhere over the object and then press Spacebar.

答案： A

解題說明：

In Autodesk Revit, when placing electrical equipment such as transformers, disconnects, or switchboards onto a pad or foundation, precise alignment is essential for accurate coordination with architectural and structural elements. During component placement, Revit provides an intuitive way to align an object before final placement using the Spacebar in combination with the object's edges.

When the cursor is hovered over an edge of the component (not just anywhere on it) and the Spacebar is pressed, Revit cycles the component's orientation, rotating it 90 degrees around its insertion point each time. This technique allows the designer to visually align the equipment's orientation with the pad or architectural geometry before clicking to place it.

According to the Autodesk Revit MEP User's Guide under "Placing and Modifying Components":

"While placing a component, move the cursor over an edge and press the Spacebar to rotate the element incrementally. This method helps align electrical or mechanical equipment with nearby reference geometry before placement." This method is ideal for electrical designers positioning pad-mounted equipment, ensuring that components such as transformers or switchgear are oriented precisely to site geometry, conduit routes, or building walls.

問題 #58

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