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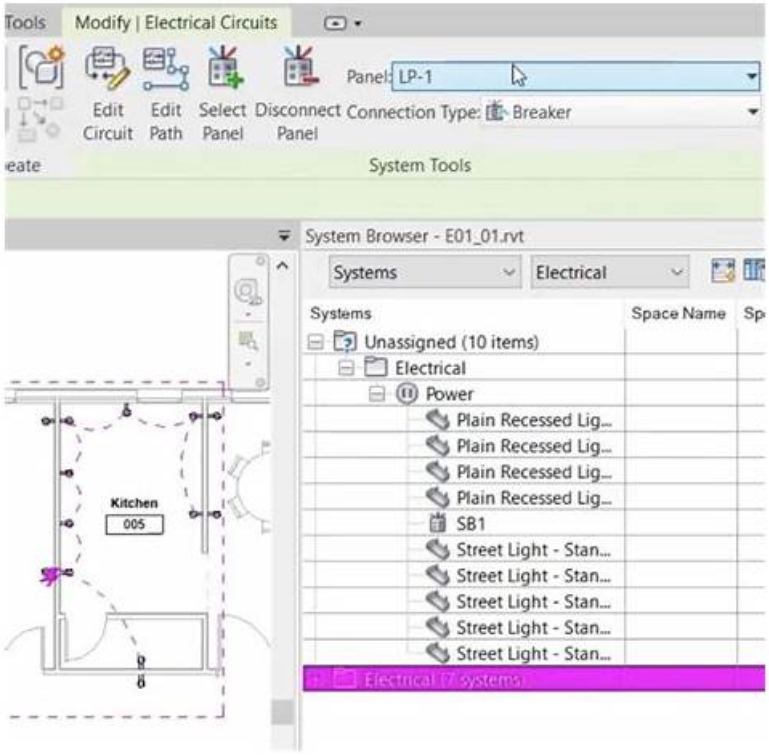

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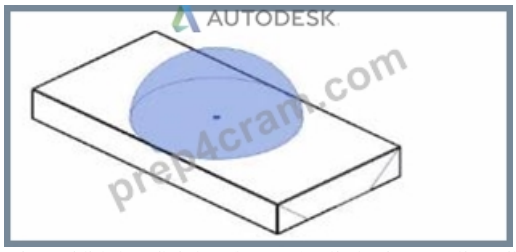
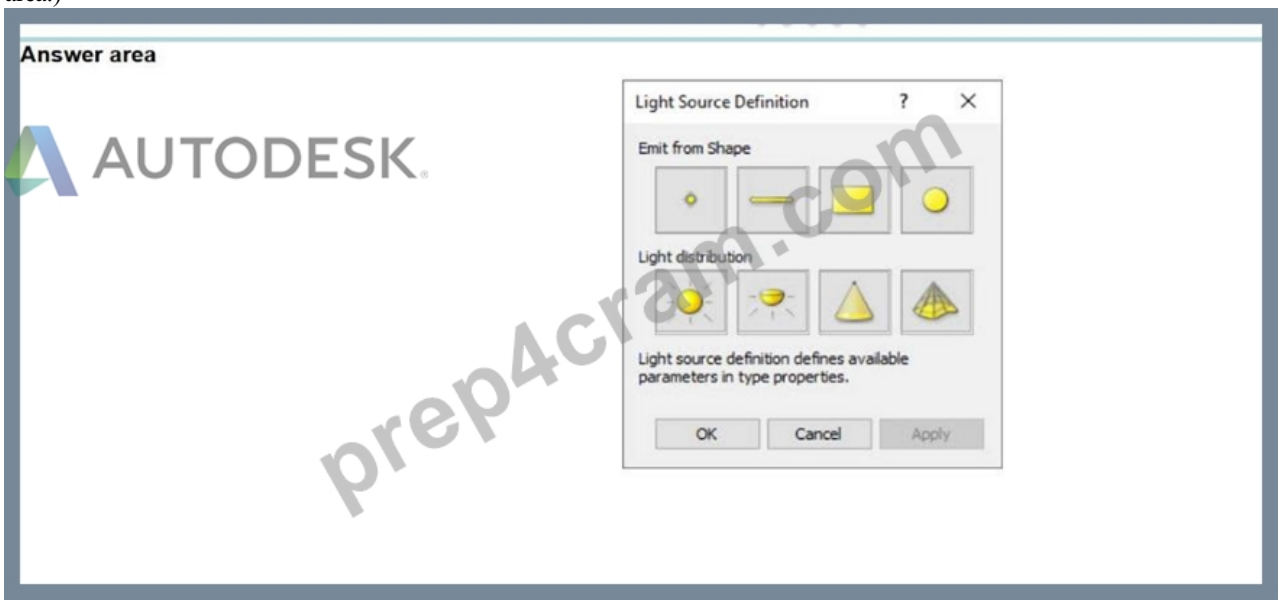
Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q55-Q60):

NEW QUESTION # 55
Refer to exhibit.

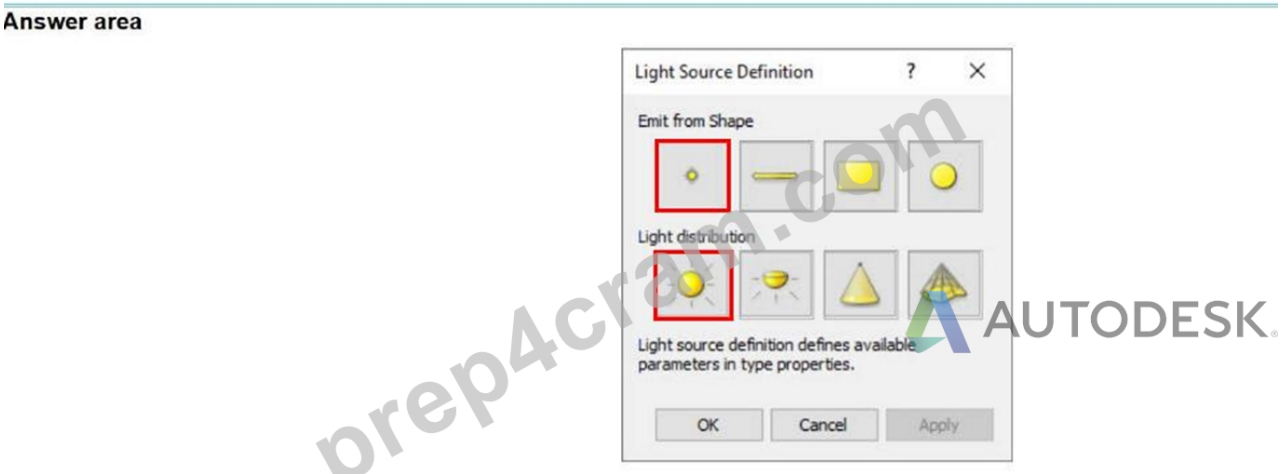


The exhibit is a lighting fixture family in the Family Editor environment and the light source is selected.
An electrical designer has downloaded a photometric web tile in IES format from a manufacturer's website for use within this lighting fixture family.
Define the light source's Emit Shape and Light Distribution for use with the photometric web (IES) file. (Select two in the answer area.)



Answer:

Explanation:



NEW QUESTION # 56
Which condition applies when placing a colling-hosted light fixture?

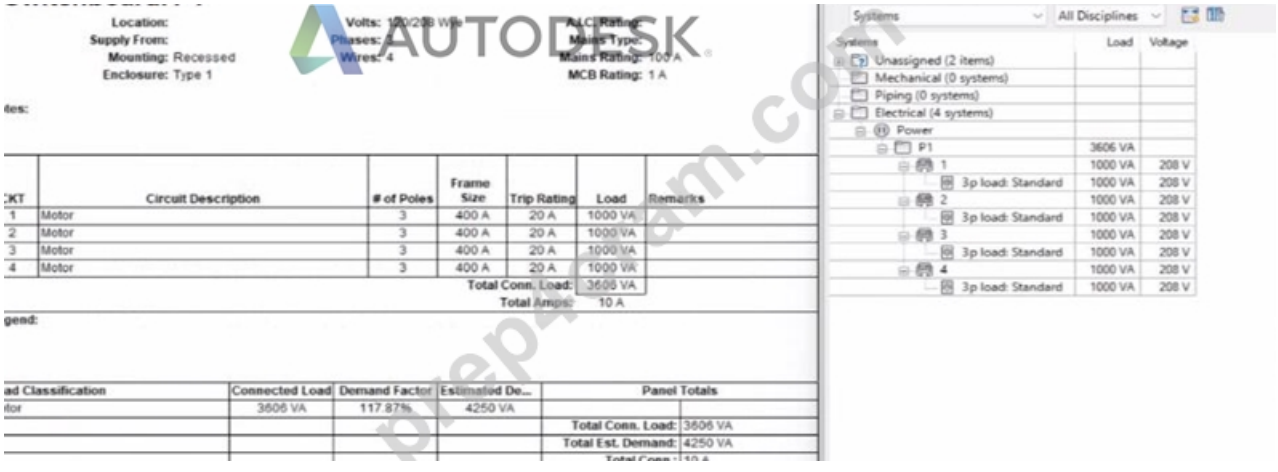
- A. The light must be hosted to the celling reference plane.
- B. The light must be snapped to the celling using nodes.

- C. The light must be placed in the same model as the ceiling
- D. The light must be defined in the ceiling layout pattern.

Answer: C

Explanation:
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.

NEW QUESTION # 57
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. The Motor demand factor is configured to adjust the connected load.
- B. Load is connected through the switchboard's feed through lugs.
- C. The connected loads are set to a different voltage than the switchboard.
- D. Sum true load and reactive load is selected in Electrical Settings.

Answer: A

Explanation:
In the exhibit, the designer expects the total connected load to equal the sum of the 4 motor loads:
4 motors × 1000 VA each = 4000 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 ≠ 4000 VA.

NEW QUESTION # 58
An electrical designer is creating an electrical equipment family which will host conduit that can be modeled from any point on a specific side of the equipment. How should this be accomplished?

- A. Select the conduit connector and edit the connector type in the Properties palette
- B. Click Conduit Connector, click Individual Connector, and then select the desired reference plane.
- C. Click Conduit Connector click Surface Connector, and then select the desired face.
- D. Select the conduit connector and edit the connector dimensions

Answer: C

Explanation:
To allow conduit to be modeled from any point on a specific side of the electrical equipment, the most accurate method is to use the "Surface Connector". This method enables the designer to place a surface-based conduit connector on a specific face of the equipment family. Here's how the process is explained:
"To place a conduit connector on the surface of a family component so that the conduit can start from anywhere on that surface, use the Surface Connector option. This connector attaches to the selected face of the equipment, allowing conduit to be drawn directly from any point on the selected face in the project environment."
"Click Conduit Connector, then choose Surface Connector, and select the face where the conduit should connect. This gives flexibility in modeling, especially for equipment requiring multiple connection points across a single face or allowing freedom of routing." This process is especially beneficial in custom electrical equipment families where conduits must originate from arbitrary points along a flat side-ensuring both parametric flexibility and coordination ease within the project environment.
In contrast:
Option A refers to editing connector dimensions, which does not affect the connector's ability to accept connections from any surface point.
Option B uses Individual Connector which limits the connection to a specific point, not the whole face.
Option D refers to changing connector type in the Properties palette, which doesn't impact connector location or coverage on a face.
Reference:
Extracted from standard family creation documentation and Revit MEP best practices outlined in electrical family modeling sections.

NEW QUESTION # 59
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. Default 3D View
- C. Section Box
- D. Selection Box

Answer: D

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 # 60
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