

Exam Guide

Autodesk Certification Professional Revit for Electrical Design

Congratulations on taking the next step towards earning your Autodesk Certification!

The purpose of this guide is to help prepare you for the Autodesk Certification Professional Revit for Electrical Design exam. Please review the document carefully to better understand the requisites needed to prepare for this exam.

Please note: You will not have access to the software during the exam, as all questions are in a selected response format and are designed to be answered without the software user interface.

Candidates who successfully achieve a passing score on this certification exam demonstrate advanced knowledge and skills in Revit for electrical design that provides the opportunity for individuals to stand out in a competitive professional environment.

Pre-requisites

The Autodesk Certification Professional Revit for Electrical Design exam is intended for students and industry professionals who possess leading edge knowledge and skills in solving complex challenges in design using Revit (Electrical). This industry validated certification created by Autodesk is intended for Revit users who have mastered relevant workflows, processes, and project objectives, in an academic program or professional architecture, MEP, or design-built engineering environment, over three years, or approximately 400 hours (minimum) to 1200 hours (recommended) of software experience.

We recommend candidates possess proficiency in the core Revit skills evaluated in this exam, outlined below, prior to taking this exam.

It's expected that all candidates can:

- Demonstrate advanced modeling skills (e.g., creating and modifying systems, spaces, cable tray, and conduit)
- Perform basic family editing (including editing connectors, light sources, annotations, symbology, and content behavior)
- Utilize worksharing and understand worksets
- Set up projects effectively and independently in Revit
- Import and link external files effectively and correctly use positioning
- Export files to different formats

- Understand the functionality of parameters and data types
- Manipulate views and their behaviors (model, drafting, filters, templates, system browser, etc.)
- Successfully edit and create project documents
- Leverage Revit data (parameters, constraints, geometry, schedules, tagging, etc.)
- Understand the basics of electrical systems and settings
- Understand project phasing
- Use revisions
- Run interference checks

Beta exam information

Sign up for the beta exam: <https://home.pearsonvue.com/Autodesk>

After signing in, please select the appropriate beta exam and choose where you want to take your exam, either at a Pearson VUE testing facility or proctored online through Pearson VUE's OnVUE option, prior to scheduling.

Total time required for beta exam: 180 minutes

Question types in the exam:



- **Multiple choice** – This item measures a candidate's ability regarding a specific content topic. A multiple-choice item has a stem which asks a question and multiple possible answers.

In order to specify an IES file for a lighting fixture family, what light distribution must be selected?



- ☐ A) HemiSpherical
- ☐ B) Spot
- ☐ C) Spherical
- ☐ D) Photometric web

- **Drag and drop** – This item measures a candidate's object association and placement skills with a drag-and-drop question. Test takers select and reposition answer options within a list or graphics.

Drag and drop the family editor tool icons to indicate where to perform the appropriate function.

● ● ● ● ●

Answer Area

Delete family type

Add new family types

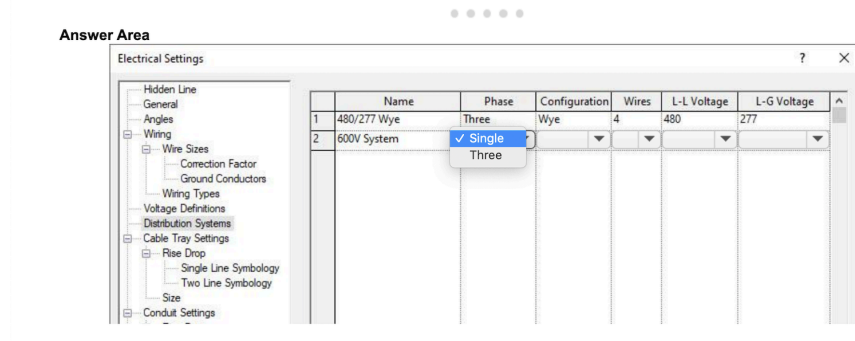
Add, modify, or delete parameters

Sets the Revit category for the family

- **Active screen** – This item measures a candidate's familiarity with the software's UI by using interactive images of the software.

An engineer instructs a Revit designer to provide power to a 600V machine. The machine has two power connections: one is 600V 3Ø and one is 347V phase-to-neutral. The building's electrical system is 480V, so the engineer plans to supply the machine with a 480V Delta Primary / 600V Wye Secondary transformer.

Use the dropdown menus in the answer area to configure a distribution system to support this machine.

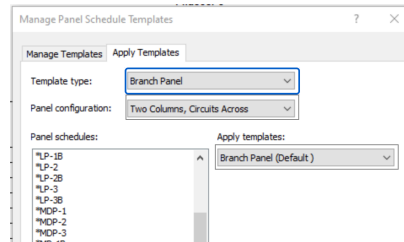


- **Hot Area** – This item measures the ability to answer a question by clicking on “hot” areas of an exhibit. Hot area items are essentially multiple-choice items with graphical answer choices.

A panel schedule template has been modified.

Select the button to apply these changes to the highlighted panel schedules.

Answer Area



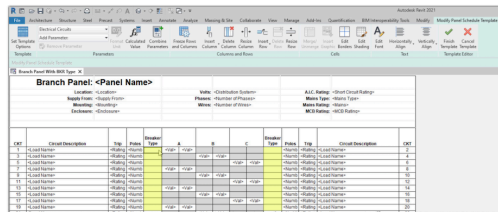
- **Graphic Interpretation** – This item measures a candidate's ability to read a graphic and interpret the information successfully.

Refer to the exhibits.

A designer creates the following Project Parameter:

Branch Panel: <Panel Name>										
Location: <Location>		Voltage: <Distribution System>		A/C Rating: <Rated Circuit Rating>		Breaker Type: <Breaker Type>		Panel Type: <Panel Type>		
Breaker: <Breaker>		Phase: <Number of Phases>		Main Type: <Main Type>		Main Rating: <Main Rating>		Main Breaker: <Main Breaker>		
Notes: <Notes>										
Circuit	Circuit Description	Type	Phase	A	B	C	Panel Type	Type	Circuit Description	Circuit
1	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	1
2	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	2
3	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	3
4	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	4
5	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	5
6	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	6
7	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	7
8	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	8
9	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	9
10	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	10
11	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	11
12	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	12
13	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	13
14	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	14
15	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	15
16	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	16
17	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	17
18	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	18
19	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	19
20	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	120/208V	20

The designer wants to display the value of this parameter for each circuit in a panel schedule. The designer adds a column to a panel schedule template as shown. (The column is highlighted in the image for clarity.)



How can the value of the project parameter be displayed in the panel schedule for each circuit?

- ☐ A) A project parameter cannot be added to a panel schedule template. Instead, a shared parameter must be added to the panelboard family.
- ☐ B) Select a schedule cell within a circuit row and within the newly created column. Type "<Breaker Type>" within the cell.
- ☐ C) Because the newly created column's header/title matches the project parameter's name, the column will populate with the project parameter automatically upon saving the template.
- ☐ D) Select a schedule cell within a circuit row and within the newly created column. Click "Add Parameter" from the ribbon. Find and select the parameter "Breaker Type."