AUTODESK/AUTOCAD TRAINING

Autodesk Revit Electrical Design Course

Master Autodesk Revit Electrical Design to create detailed electrical systems. Design and document efficient building electrical layouts.

DURATION
Flexible

LEVEL
Intermediate

FORMAT
Instructor-Led

- Globally Recognized Certification
- Expert-Led Hands-On Training
- Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level Autodesk Revit Electrical Design course is meticulously designed for electrical engineers, designers, and BIM professionals seeking to master the creation and management of electrical systems within the Building Information Modeling (BIM) framework. Participants will gain comprehensive skills in utilizing Revit's powerful tools to design, document, and analyze electrical infrastructure for various building projects. The course emphasizes practical application, covering everything from circuiting and panel schedules to lighting layouts, power distribution, and low-voltage systems.

By the end of this program, you will be proficient in creating intelligent electrical models that facilitate enhanced collaboration, reduce design errors, and improve project efficiency. Leveraging Revit's BIM capabilities, you'll learn to generate accurate quantities, perform clash detection, and produce high-quality construction documentation. This expertise is crucial for modern building projects, enabling you to contribute to more sustainable, cost-effective, and precisely executed electrical installations, ultimately boosting your career trajectory in the AEC industry.

Level	Intermediate
Vendor	Autodesk/AutoCAD

COURSE CURRICULUM

01 Module 1: Introduction to Revit for Electrical Design

- Understanding BIM principles and Revit's interface
- Setting up electrical projects and templates
- Navigating the Revit environment and viewing tools
- Linking architectural models and coordinating levels
- Introduction to electrical settings and system browser

02 Module 2: Electrical System Configuration and Device Placement

- Managing electrical settings, voltages, and wiring types
- Creating and modifying electrical families (fixtures, panels, devices)
- Placing receptacles, switches, and other wiring devices
- Establishing cable trays and conduits
- Understanding phases and circuiting fundamentals

03 Module 3: Power Distribution Design and Analysis

- Creating electrical circuits and wiring
- Designing and documenting panel schedules
- Performing load calculations and applying demand factors
- Introduction to transformer placement and connections
- Power system integration and single-line diagrams

04 Module 4: Lighting Design and Low Voltage Systems

- Placing lighting fixtures and creating lighting circuits
- Introduction to lighting analysis tools within Revit (e.g., Illuminance calculations)
- Designing fire alarm systems (detectors, strobes, panels)
- Implementing data and communication systems (voice, data outlets)
- Security system device placement and connectivity

05 Module 5: Documentation, Collaboration, and Advanced Workflows

- Creating detailed electrical drawings, schedules, and sheets

- Tagging and annotating electrical components
- Clash detection and coordination with other disciplines (MEP)
- Worksharing and collaboration best practices in a BIM environment
- Exporting models to other formats (e.g., AutoCAD, Navisworks) for coordination

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> **BIM Electrical Modeler**

> **MEP Design Engineer (Electrical Focus)**

> **BIM Coordinator (Electrical Systems)**

FREQUENTLY ASKED QUESTIONS

Q: What foundational knowledge or software experience is recommended before enrolling in the Autodesk Revit Electrical Design Course?

While prior experience with AutoCAD or general CAD software is beneficial, it's not strictly mandatory. However, a solid understanding of basic electrical engineering principles, circuit theory, and common electrical system components is highly recommended. The course is designed for intermediate users, assuming some familiarity with electrical design concepts and a desire to transition into BIM workflows.

Q: How will mastering Revit Electrical design capabilities enhance my project delivery and career prospects compared to traditional 2D CAD methods?

This course will equip you with the ability to create intelligent, data-rich electrical models, dramatically improving project coordination, reducing errors, and accelerating documentation compared to traditional 2D methods. You'll gain proficiency in BIM workflows, making you highly valuable to firms embracing modern construction practices, leading to roles in advanced electrical design, BIM coordination, and MEP project management. Your projects will benefit from better visualization, clash detection, and more accurate quantity take-offs.

Q: Does this course incorporate any specific modules or considerations for designing electrical systems compliant with local Kenyan building codes or international standards like IEC/NEC?

This course primarily focuses on the universal functionalities and best practices of Autodesk Revit Electrical Design, which are applicable globally. While the core curriculum does not specifically delve into the intricacies of Kenyan building codes (e.g., KEBS standards) or specific regional electrical codes, the skills learned are fully transferable. Participants will be able to apply the software's capabilities to design systems that meet any specified local or international standards by configuring Revit's settings and inputting the correct parameters as per project specifications.

ABOUT COMPUTER PRIDE

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15+	10,000+	50+
Years of Excellence	Professionals Trained	Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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