



# AUTOCAD ELECTRICAL



Jal Vinayak Marg, Na Tole, Pulchowk, Lalitpur



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Engineering Your Success Story



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**Er. Om Adhikari**

Trainer

**LINE ACADEMY**



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# ABOUT THE COURSE

AutoCAD, a popular Computer-Aided Design (CAD) software, has gained significant prominence in Nepal over the years. AutoCAD was introduced in Nepal in the late 1980s and early 1990s when computer technology started to become more accessible in the country. Initially, AutoCAD was primarily used by engineering professionals, architects, and designers for drafting and designing purposes. As Nepal witnessed rapid urbanization and infrastructure development, the demand for professionals proficient in AutoCAD increased. The software became an essential tool for various sectors, including civil engineering, architecture, electrical design, mechanical design, and more. AutoCAD has played a significant role in engineering education in Nepal. Universities and technical institutions started incorporating AutoCAD courses into their engineering curriculum to equip students with the necessary skills for the industry. AutoCAD became an integral part of programs such as Civil Engineering, Architecture, Electrical Engineering and Mechanical Engineering.







## ABOUT THE TRAINER

Er. Om Adhikari is a highly accomplished individual who is currently working as Deputy Head of Electrical Department at the National College of Engineering and as a part-time lecturer at Janakpur Engineering College. He holds a Bachelor's degree as well as Master's degree in Power System from IOE, Pulchowk Campus, showcasing his exceptional academic background.

In addition to his teaching positions, Mr. Adhikari has made significant contributions to Line Academy, where he has successfully conducted more than five sessions of AutoCAD Electrical training. His expertise and dedication have been highly valued by both the institute and the students. His training sessions have consistently received positive feedback, highlighting his exceptional teaching skills and the value he brings to the learning experience.

Mr. Adhikari's passion for his field and his ability to effectively impart knowledge have made him a respected figure in the training industry. His contributions to Line Academy have further strengthened the institute's reputation for delivering high-quality education and industry-relevant training programs.



# BENEFITS OF AUTOCAD

- **Industry-Relevant Skills:** AutoCAD Electrical is a powerful tool that equips professionals with industry-relevant skills essential for success in electrical engineering and related fields.
- **Improved employability:** Acquiring AutoCAD Electrical expertise significantly enhances employability in various sectors, including electrical engineering, manufacturing, construction, and automation.
- **Enhanced Productivity and Efficiency:** AutoCAD Electrical streamlines electrical design processes, leading to improved productivity and efficiency.
- **Design Visualization:** AutoCAD Electrical empowers designers to create highly accurate and visually appealing electrical designs.
- **Collaboration and Documentation:** AutoCAD Electrical facilitates seamless collaboration among design teams. Its cloud-based features allow for real-time collaboration.
- **Customization and Automation:** Users can create custom symbols, templates, and macros to streamline their workflows and tailor the software to specific industry.



## BENEFITS OF PRIMAVERA TRAINING AT LINE ACADEMY

- **Learn from Industry Experts:** Gain insights from highly experienced and certified instructors who bring real-world expertise to Primavera training.
- **State-of-the-Art Facilities:** Benefit from well-equipped labs designed to provide a hands-on, practical learning experience in Primavera.
- **Engaging Learning Environment:** Enjoy a friendly and interactive atmosphere that fosters collaboration and active participation.
- **Financial Support for Students:** Take advantage of scholarships available for students who demonstrate need and meet eligibility criteria.
- **Flexible Learning Options:** Opt for online training if you're unable to attend in person, ensuring accessibility and convenience.
- **Real-World Project Experience:** Work on projects under the supervision of instructors and industry experts, gaining practical experience and building your portfolio.

# COURSE OUTLINE

- Part 1. Introduction to AutoCAD Electrical
- Part 2. AutoCAD Workflow
- Part 3. Understanding the Building Design
- Part 4. Electrical Drawing in the given design
- Part 5. A 'Basic Electrical' Revision
- Part 6. Three phase Electrification

## PART 1: INTRODUCTION TO AUTOCAD ELECTRICAL

- Easily draw electrical schematics using pre-defined symbols and templates.
- Design and layout electrical control panels with accuracy and efficiency.
- Basic navigation and drawing commands

## PART 2. AUTOCAD WORKFLOW

- GUI and CLI Approach for drawing the shapes
- CLI for building and modifying the electrical blocks
- Working with layers and their properties
- Labeling Annotation, Unit and Dimension

## PART 3. UNDERSTANDING THE BUILDING DESIGN

- Visualizing the Drawing
- Connecting the perspective

## PART 4. ELECTRICAL DRAWING IN THE GIVEN DESIGN

- Identifying the location for the electrical components
- Lighting the space in a design
- Load calculation and Distribution Board design



## PART 5. A 'BASIC ELECTRICAL' REVISION

## PART 6. THREE PHASE ELECTRIFICATION

- Lux Calculation
- Drawing in the large space
- Load distribution in 3-phase
- Load calculation
- Single Line Diagram
- Cable Sizing
- Cost and Estimation
- Final Documentation

Engineering Your Success Story

# Line Academy

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## Contact Us



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Location

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