



Content
Community
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AutoCAD Electrical Mastery Bundle - Beginner, Intermediate and Advanced

[View Course Details](#)

COURSE DATES AND TIMES

Course Overview

This bundled learning track includes the [AutoCAD Electrical Tutorial](#) for beginners, the [AutoCAD Electrical Training](#) intermediate course, and the advanced [AutoCAD Electrical Toolset](#) course. Together, they build a structured progression from basic drafting skills to advanced electrical design practices.

Students begin with the fundamentals of navigation, drawing tools, precision controls, and essential drafting workflows. The intermediate course then strengthens productivity through project-based learning, accurate positioning, block development, templates, annotation standards, and XREF management. The advanced Electrical Toolset course completes the progression by introducing intelligent schematics, automated wiring, parent-child components, cross-referencing, panel layout tools, reporting functions, and project-wide utilities used in professional electrical design environments.

By completing all three courses in this mastery bundle, participants gain stronger skills, deeper confidence, and a wider range of job-ready drafting and electrical design capabilities than they would by taking any single course. The bundled program offers better sequencing, a clearer learning progression, and significant savings over registering for the courses individually.

By completing the AutoCAD Electrical Mastery Bundle, participants will be able to:

- Navigate AutoCAD confidently and apply essential drawing and editing tools.
- Use precision controls, layers, annotation tools, and templates effectively.

- Develop schematic, mechanical, electrical, and project-based drawings.
- Create, organize, and manage blocks, tool palettes, and reusable drawing assets.
- Apply constraints, tracking methods, and project utilities for efficient workflows.
- Produce clean, consistent drawings using annotation, dimension, and layout standards.
- Use the Electrical Toolset for intelligent schematics, automated wiring, and symbol management.
- Generate automatic reports, wire lists, and bills of materials.
- Build panel layouts and link footprints to schematic devices.
- Manage multi-drawing electrical projects with cross-referencing and parent-child relationships.
- Create professional, build-ready electrical documentation from start to finish.

Related Courses

- [AutoCAD Electrical Tutorial](#)
- [AutoCAD Electrical Training](#)
- [AutoCAD Electrical Toolset](#)

WHO SHOULD ATTEND

This mastery bundle is ideal for:

- Beginners seeking a complete start-to-finish AutoCAD Electrical learning path
- CAD drafters, designers, and technicians are upgrading their drafting efficiency

- Electrical engineers producing schematics, wiring diagrams, and panel layouts
- Technologists and project managers working with multi-drawing documentation
- Professionals preparing for advanced electrical CAD roles
- Employers who want a structured, cost-effective training path for new or existing staff
- Anyone who wants all three courses at a savings compared to separate registrations

STUDENTS RECEIVE

- AutoCAD Electrical Mastery Bundle Course Certificate
- .6 Continuing Education Unit (CEU) Credits (6 Professional Development Hours)
- 100-Page Digital Handbook - Value \$20 (details below)
- A FREE Electricity Today T&D Magazine Subscription (Value \$25)
- \$50 Coupon toward any future Electricity Forum event (restrictions apply)
- Course Presentations in PDF Format

COURSE OUTLINE

AutoCAD Electrical Mastery Bundle – Full Course Outline

(Basic Course 6 Hours + Intermediate Course 12 Hours + Advanced Course 6 Hours) = 24 Hours Total Over 3 Weeks

PART 1 — BASIC COURSE OUTLINE (6 HOURS)

[\(AutoCAD Electrical Tutorial – Beginner Level\)](#)

1. Getting Started

- User Interface and Command Line
- Working with Commands
- Cartesian Workspace
- Drafting Settings (DSETTINGS)
- Opening, Viewing, and Saving Drawing Files

2. Drawing Precision

- Units (UNITS)
- Object Snaps (OSNAP)
- Snap and Grid (SNAP, GRID)

3. Basic Drawing Commands

- Lines (LINE)
- Circles (CIRCLE)
- Arcs (ARC)
- Polylines (PLINE)
- Polygons (POLYGON)
- Erase (ERASE)
- Undo / Redo
- Basic Hatching

4. Making Changes

- Selecting Objects
- Move, Copy, Rotate, Scale, Mirror

5. Layers

- Layer Concepts and Management

6. Advanced Editing

- Trim
- Stretch
- Fillet, Chamfer
- Array

7. Blocks

- Creating and Managing Blocks

8. Viewports and Layouts

- Creating and Modifying Viewports
- Working with Layouts

9. Text and Tables

- Text Styles (TEXTSTYLE)
- Multiline Text (MTEXT)

- Editing Notes and Tables

10. Dimensions

- Dimension Styles (DIMSTYLE)
- Linear, Radial, Angular Dimensions
- Editing Dimensions

11. Printing and Plotting

- Plot Concepts (PLOT)
- Print / Plot to PDF

PART 2 — INTERMEDIATE COURSE OUTLINE (12 HOURS)

[\(AutoCAD Electrical Training – Intermediate Level\)](#)

1. Working Effectively with AutoCAD

- Custom Workspace
- Keyboard Efficiency
- Object Creation, Selection, Visibility
- Working in Multiple Drawings
- Copy/Paste Between Drawings
- Using Grips
- Additional Layer Tools

2. Accurate Positioning

- Coordinate Entry
- Tracking Methods
- Construction Lines
- Reference Points

3. Projects – Productivity Tools

- Schematic Project – Purifier Unit
- Mechanical Project – Two Views
- Mechanical Project – Block

4. Parametric Drawing

- Constraints Overview
- Geometric Constraints
- Dimensional Constraints

5. Working with Blocks

- Creating Blocks
- Editing Blocks
- Removing Unused Elements
- Adding Blocks to Tool Palettes
- Modifying Tool Palette Properties

6. Projects – Creating and Organizing Blocks

- Mechanical Project – Control Panel
- Electrical Project – Device Schematic
- Civil Project – Utility Layout

7. Creating Templates

- Purpose of Templates
- Units Control
- Creating Layers
- Standard Layouts
- Saving Templates

8. Annotation Styles

- Text Styles
- Dimension Styles
- Multileader Styles

9. Projects – Drawing Setup and Utilities

- Mechanical / Schematic Project Setup
- Mechanical Project – Dimension Standards

10. External References (XREF)

- Attaching Xrefs
- Modifying Xrefs
- Xref Organization Techniques

11. Projects – Drawing Deliverables

- D-Size Title Block
 - Electrical Single-Line Schematic
 - P&ID – Oil Lubrication System
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PART 3 — ADVANCED COURSE OUTLINE (6 HOURS)

(AutoCAD Electrical Toolset – Advanced Automation Level)

1. Introduction to AutoCAD Electrical Toolset

- Electrical Toolset Interface
- Project Manager
- Drawing Properties
- Project Organization

2. Schematic Creation Tools

- Inserting Electrical Components
- Parent-Child Linking
- Coil/Contact Relationships
- Device Tagging and Component Editing

3. Wiring Tools

- Wire Numbering and Wire Type Management
- Wire Layers and Wire Cleanup
- Cable Markers and Signal Arrows
- Automatic Wire Connections

4. Circuit Tools

- Using Circuit Builder
- Saving and Reusing Circuits
- Insertion of Pre-Built Circuits
- Managing Schematic Macros

5. Panel Layout Tools

- Inserting Footprints
- Linking Schematic Components to Footprints
- Creating Panel Layout Views
- Terminal Strip Editor

6. Cross-Referencing and Project Utilities

- Cross-Reference Updates
- Source/Destination Signals
- Error Checking and Project Auditing
- Global Project Updates
- Title Block Updates

7. Automated Reporting

- Bills of Materials
- Wire Lists
- Component Reports
- Exporting to Excel / PDF

COURSE SCHEDULE

Both days:

Start: 10 a.m. Eastern Time

Finish: 4:30 p.m. Eastern Time

Contact us Today for a FREE quotation to deliver this course at your company's location.

[Request Quote](#)