



Content
Community
Connection

United States
The Electricity Forum Inc.
742 Pre Emption Road
Geneva, NY 14456
Tel 289-387-1025

Canada
The Electricity Forum
1885 Clements Rd, Unit 218
Pickering, ON L1W3V4
Tel 905-686-1040
Fax 905-686-1078
Toll Free 855-824-6131

Autocad Electrical Toolset - Advanced

[View Course Details](#)

COURSE DATES AND TIMES

AutoCAD Electrical Toolset Course Overview

This 6-hour, instructor-led AutoCAD Electrical Toolset training equips students to automate repetitive drafting tasks, manage multi-drawing projects, and deliver standardized documentation for control systems, PLC wiring, and industrial automation design. Delivered by a certified AutoCAD Electrical Training Specialist and supported with a 30-day demo license, the course prepares professionals to reduce errors, improve productivity, and apply structured electrical documentation workflows in production environments.

This advanced AutoCAD Electrical training focuses on electrical schematic automation, PLC and ladder logic documentation, intelligent symbol libraries, footprint linking, terminal management, and project reporting. Participants learn how AutoCAD Electrical automation tools transform traditional drafting into structured, rule-based electrical system documentation.

This AutoCAD Electrical Toolset training course may be taken alongside our [AutoCAD Electrical Tutorial \(Basic\)](#), [AutoCAD Electrical Training](#) (Intermediate), or as part of our 24-hour [AutoCAD Electrical Mastery Bundle](#) for complete system design proficiency.

For organizations adopting AutoCAD Electrical in production environments, this course delivers measurable productivity gains, improved documentation accuracy, and consistent design standards across engineering teams.



Note: This course is delivered by a certified AutoCAD Electrical Training Specialist and includes a 30-day Demo License for hands-on practice with the software.

What This Course Covers

This AutoCAD Electrical Toolset training program teaches participants how to use intelligent symbol libraries, automated wire numbering, parent-child component relationships, PLC symbol management, ladder logic documentation, and built-in cross-referencing to streamline electrical schematic automation and reduce errors across complex projects.

Participants also learn how Circuit Builder enhances circuit design by automating symbol placement, wire connections, and schematic generation. The course emphasizes professional workflows for control systems engineering, industrial automation, panel fabrication, and PLC documentation.

In addition to schematic creation, students learn how to configure project environments, manage templates, customize symbols, control title block intelligence, and generate production-ready reports such as wire lists, bills of materials, and terminal schedules.

Learning Outcomes

Upon completion of this AutoCAD Electrical Toolset training course, participants will be able to:

- Build intelligent schematic drawings using AutoCAD Electrical automation tools
- Create PLC wiring diagrams and ladder logic documentation
- Automate wire numbering, tagging, and cleanup
- Manage parent-child and source-destination relationships
- Insert and organize panel footprints and terminal strips
- Cross-reference components across drawings
- Create custom symbols, templates, and title block intelligence
- Generate reports, wire lists, and bills of materials automatically
- Apply project standards for enterprise documentation consistency

Related Courses

- [AutoCAD Electrical Mastery Bundle](#)
- [AutoCAD Electrical Tutorial](#)
- [AutoCAD Electrical Training](#)

WHO SHOULD ATTEND

This AutoCAD Electrical Toolset training course is designed for:

- Electrical designers and engineers
- Controls engineers and PLC specialists
- Panel builders and automation integrators
- Experienced AutoCAD users adopting AutoCAD Electrical Toolset
- Anyone responsible for professional electrical documentation and production drawings

STUDENTS RECEIVE

- AutoCAD Electrical Toolset Training 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 Toolset Training Course Outline

Setup, Interface & Project Configuration

- Interface customization, workspaces, and workflow optimization
- Project template creation and standards enforcement
- Drawing management and project structure
- Schematic, panel, and documentation workflow overview

Intelligent Wiring & Schematic Automation

- Wire insertion, wire types, and automatic wire numbering
- Intelligent component insertion and tagging
- Parent-child relationships and relay management
- Circuit Builder workflows and circuit reuse

PLC, Ladder Logic & Control Documentation

- PLC symbol libraries and I/O representation
- Ladder logic documentation techniques
- PLC wiring diagram workflows
- I/O mapping and control system documentation

Editing, Cross-Referencing & Audit Tools

- Cross-referencing and source-destination arrows
- Automatic cleanup and project auditing
- Component and wire editing automation
- Standards compliance verification

Advanced Circuits & Multi-Phase Wiring

- Three-phase and multi-phase circuits
- Bus wiring and cable management
- Saved circuits and circuit clipboard tools
- Best practices for industrial wiring standards

Panel Layouts, Footprints & Terminals

- Converting schematics to panel layouts
- Footprint placement and DIN rail management
- Terminal strip drawings and annotations
- Schematic-to-panel linking workflows

Custom Symbols, Templates & Title Blocks

- Custom symbol creation and management
- Tool palettes and template configuration
- Smart title block linking
- Corporate standards enforcement

Reports, Documentation & Project Management

- Wire lists, BOMs, terminal schedules
- Batch updates and global edits

- Project-wide renumbering and cleanup
- Documentation quality control

Real-World Project Workflow

- End-to-end electrical design project walkthrough
- Enterprise documentation best practices
- Production documentation review

COURSE SCHEDULE

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](#)