



Learning AutoCAD Electrical 2010

This guide provides an overview of many AutoCAD Electrical 2010 utilities designed to enable users to quickly create and manage electrical-controls production drawings. Users focus on how to build intelligent ladder diagrams and panel layouts, and how to leverage the intelligence built into AutoCAD Electrical. Hands-on exercises representing real-world design scenarios for the JIC (US) standard are included.

Objectives

To teach users the basic commands necessary for creating professional electrical-controls drawings with AutoCAD Electrical software. After completing this class, users will be able to:

- Navigate the AutoCAD Electrical user interface.
- Manage projects and the multiple drawing and inter-drawing relationships contained in electrical projects.
- Insert wires, add wire numbers, manage circuits, and create point-to-point wiring diagrams and drawings.
- Insert and annotate schematic symbols.
- Edit drawings project wide with commands that are specific to the electrical design environment.
- Extract information from drawings to create Bill of Material, Wiring, and other reports.
- Create and annotate panel layout drawings with lists of components that are extracted from schematic drawings and with other specific panel layout tools, such as the Terminal Strip Editor.

Duration

2 days

Who should attend?

New users of AutoCAD Electrical.

Pages

Volume 1 – 344 pages; Volume 2 – 198 pages

Typical Schedule

Unless otherwise noted on your class registration e-mail, this class starts each day at 9:00 am and ends at 4:00 pm.

Prerequisites

Before using this guide, students should have a working knowledge of the following:

- A recent version of AutoCAD.
- Electrical drafting, design, or engineering principles.
- Microsoft® Windows® Vista or Microsoft® Windows® XP.

Outline

Basic Workflow

- Navigating the Interface
- Basic Workflow

Project Basics

- Project Manager
- Project Drawing List
- Moving Through Projects
- Managing Projects

Schematic Wiring

- Wires and Ladders
- Point-to-Point Wiring
- Wire Numbers and Leaders
- Source and Destination Signals

Schematic Components

- Inserting Schematic Symbols
- Inserting Schematic Components from Lists
- Connectors
- Terminals, Multiple Level Terminals, and Jumpers
- Circuits
- Multiple Phase Circuits

Schematic Editing

- Basic Utilities
- Copy Catalog and Location Tools

- Swapping and Updating Blocks
- Using the Auditing Tools
- Update and Retag Drawings

Schematic Reports

- Schematic Reports

Panel Layouts

- Creating Panel Layouts
- Using the DIN Rail Tool
- Using the Terminal Strip Editor
- Panel Layout Annotation and Reports

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