



Productivity with 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 customization and productivity enhancing tools available in AutoCAD Electrical to improve electrical project design and management processes. After completing this guide, users will be able to:

- Change project and drawing configurations, create drawing templates, and manage reference files and directory search paths.
- Create custom schematic and panel symbols to meet specific needs, and customize the icon menu system to include the new symbols.
- Edit part catalog, footprint lookup, pin list, and terminal property databases.
- Use automated processes, such as generating reports and updating drawings from spreadsheets, adding wiring information to footprints, managing cables, and inserting and configuring circuits in projects to improve design productivity.
- Insert parametric PLC I/O and standard full-unit modules in schematic drawings, as well as create custom PLC I/O modules.

Duration

2 days

Who should attend?

New users of AutoCAD Electrical.

Pages

Volume 1 - 276; Volume 2 - 228

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, users should have completed a *Learning AutoCAD Electrical* course, and 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

Settings and Configurations

- Creating Wire Types
- Using Reference Files
- Drawing Properties
- Project Properties
- Creating Drawing Templates
- Installation and Search Paths

Custom Components

- Schematic Symbols
- Icon Menu System
- Panel Footprints

Custom Data

- Managing Part Catalog Databases
- Editing the Pin List Database

- Editing the Terminal Properties Database
- Updating Title Block Attributes

Automation Tools

- Updating Schematics from Spreadsheets
- Generating Automatic Reports

Autodesk Vault Integration

- Working with Autodesk Vault

PLC Modules

- Using PLC I/O Modules
- Using the PLC Database File Editor
- PLC I/O Address-Based Tagging
- Using the Spreadsheet to PLC I/O Utility

Productivity Tools

- Adding Wire Data to Footprints
- Managing Cables
- Using the Circuit Builder
- Working with Peer-to-Peer Drawings
- Creating One-Line Diagrams

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