

## AutoCAD Electrical 2010

### Learning AutoCAD Electrical 2010 (IEC Standard)

#### Description

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 IEC (international) standard are included.

<b>Pages</b>	Volume 1 – 344; Volume 2 - 198
<b>Trial CD</b>	Yes
<b>Onscreen Exercises</b>	Yes
<b>Prerequisites</b>	Before using this guide, students should have a working knowledge of the following: <ul style="list-style-type: none"><li>• A recent version of AutoCAD.</li><li>• Electrical drafting, design, or engineering principles.</li><li>• Microsoft® Windows® Vista or Microsoft® Windows® XP</li></ul>

#### Class Information

<b>Suggested Duration</b>	2 days
<b>Objective</b>	<p>To teach users the basic commands necessary for creating professional electrical-controls drawings with AutoCAD Electrical software.</p> <p>After completing this class, users will be able to:</p> <ul style="list-style-type: none"><li>• Navigate the AutoCAD Electrical user interface.</li><li>• Manage projects and the multiple drawing and inter-drawing relationships contained in electrical projects.</li><li>• Insert wires, add wire numbers, manage circuits, and create point-to-point wiring diagrams and drawings.</li><li>• Insert and annotate schematic symbols.</li><li>• Edit drawings project wide with commands that are specific to the electrical design environment.</li><li>• Extract information from drawings to create Bill of Material, Wiring, and other reports.</li><li>• 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.</li></ul>
<b>Who Should Attend</b>	New users of AutoCAD Electrical.

# **In this Guide**

## **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 Values
- 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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**Note:** The suggested class duration is a guideline. Topics and duration may be modified by the instructor based upon the knowledge and skill level of the class participants.

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