

# AutoCAD Electrical 2010 Essentials (IEC Standard)

## Description:

Duration: 3 Days

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.

## Course 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:

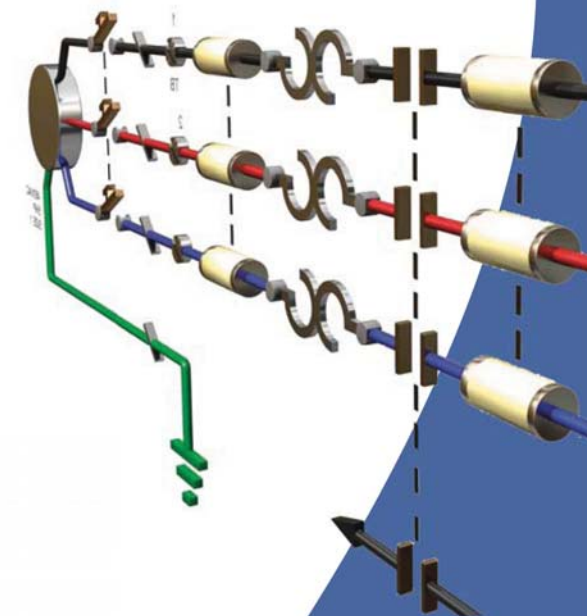
- Navigate the AutoCAD Electrical user interface.
- Manage projects and the multiple drawing and inter-drawing relationships contained in electrical projects.
- Insert wires, add wire numbers, manage circuits, and create point-to-point wiring diagrams and drawings.
- Insert and annotate schematic symbols.
- 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.

## Who Should Attend & Prerequisites:

This courseware is designed for new users of AutoCAD Electrical.

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

- A recent version of AutoCAD.
- Electrical drafting, design, or engineering principles.



## AutoCAD Electrical Essentials Course Outline:

### Basic Workflow

- Design Environment
- 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
- Circuit Builder

### 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
- One Line Diagrams

