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Learning AutoCAD Electrical 2010 (JIC Standard)

Course Objectives

The primary objective of this course is to teach students the basic commands necessary for creating professional electrical-controls drawings with AutoCAD Electrical software.

After completing this course, students 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 course is designed for new users of AutoCAD Electrical. Before taking this course, the student 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.

Course 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

Course Duration: 2 Days

Tuition: \$500.00 / Student