



AutoCAD Electrical 2012 Essentials Course Outline

Course Description: This course is designed to introduce a new user to the basics of AutoCAD Electrical. This class will cover Schematic Drafting & Editing Tools, Report Generation, Project Drawing Sets, Project-wide Wire Tagging, using Spreadsheets for PLC I/O, Item Numbers, Balloons, BOM Reporting, and much more! Each student will leave this class with basic AutoCAD Electrical skills and problem-solving techniques.

It is recommended you have a background in electrical design and working knowledge of AutoCAD and Microsoft Windows 7.

Topics:

1. Introduction to AutoCAD Electrical

What is AutoCAD Electrical?
Drawing Files
Electrical Components and Wires
Design Methodologies

2. Project Files

Project Files
Project Manager Interface
Accessing Project Files
Opening a Drawing
Creating a Drawing
Add a Drawing to a Project File
Managing Drawings in Projects
Project Manager Drawing List

3. Schematics I- Single Wires/Components

Referencing
Ladders
Insert Wires
Edit Wires
Add Rungs
Wire Setup
Wire Numbers
Source & Destination
Signal Arrows
Insert Components
Parent/Child Components

4. Schematics II- Multi-wire and Circuits

Dashed Link Lines
3-Phase Ladders
Multiple Wire Bus
3-Phase Components
3-Phase Wire Numbering
Cable Markers
Fan In/Out
Insert Saved Circuits
Save Circuits to Icon Menu
Wblock Circuits
Copy Circuits
Move Circuits
Circuit Builder

5. Editing Commands

Edit Components
Project Task List
Scoot
Move Component
Copy Component
Align
Delete Component
Surfer Command
Copy Catalog Assignment
Copy Installation/Location
Code Values
Attribute Editing
Commands

6. Panel Drawings

Insert Footprint (Icon Menu)
Insert Footprint (Schematic List)
Insert Component (Panel List)
Edit Footprint
Assign Item Numbers
Add Balloons

7. Terminals

Insert Terminal Symbols
Multiple Level Terminals
Multiple Insert Component Commands
Insert Jumpers
Terminal Strip Editor
DIN Rail Command

8. PLC Symbols

Insert PLC (Parametric)
Insert PLC (Full Units)
Insert Individual PLC I/O Points
PLC Based Tagging
Spreadsheets to PLC I/O
Utility

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9. Point-to-Point Wiring Drawings

- Insert Connectors
- Edit Connectors
- Insert Splices
- Insert Multiple Wires
- Band Wires

10. Symbol Creation

- Schematic Symbols
- Naming Convention
- Icon Menu Wizard
- AutoCAD Electrical Databases
- Project Databases
- Catalog Databases
- Footprint Lookup Databases
- PLC Databases
- Pin List Databases
- Terminal Properties Databases

11. Titleblocks

- Update Titleblocks
- Titleblock Setup

12. Reporting Tools

- Create Reports
- Save to External File
- Put on Drawing
- Configure Report Templates
- Running Automatic Reports
- Electrical Audit

13. Settings and Templates

- Project Properties
- Drawing Properties
- Panel Drawing Configuration
- Template Files
- Sharing Symbol Libraries and Databases

14. Drawing Update Tools

- Project-Wide Update/Retag
- Project-Wide Utilities
- Plot Project
- Export to Spreadsheet
- Update from Spreadsheet
- Copy Project
- Swap/Update Block
- Mark Drawings
- Verify Drawings

Duration: 4 Days

Classroom Tuition:
\$1,100.00/student

Group rates are available

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