

AutoCAD Electrical Training Guide Contents

Course Length: 3 Days

Chapter 1: Introduction to AutoCAD Electrical

- 1.1 What is AutoCAD Electrical?
- 1.2 Drawing Files
- 1.3 Electrical Components and Wires
- 1.4 Design Methodologies

Chapter 2: Project Files

- 2.1 Project Manager Interface
- 2.2 Accessing Project Files
- 2.3 Opening a Drawing
- 2.4 Creating a Drawing
- 2.5 Add a Drawing to a Project File
- 2.6 Managing Drawings in Projects
- 2.7 Project Manager Drawing List

Chapter 3: Schematics I – Single Wires/Components

- 3.1 Referencing
- 3.2 Ladders
- 3.3 Insert Wires
- 3.4 Edit Wires
- 3.5 Add Rungs
- 3.6 Wire Setup
- 3.7 Wire Numbers
- 3.8 Source and Destination Signal Arrows
- 3.9 Insert Component
- 3.10 Parent/Child Components

Chapter 4: Schematics II - Multiwire and Circuits

- 4.1 Dashed Link Lines
- 4.2 3-Phase Ladders
- 4.3 Multiple Wire Bus
- 4.4 3-Phase Components
- 4.5 3-Phase Wire Numbering
- 4.6 Cable Markers
- 4.7 Fan In/Out
- 4.8 Insert Saved Circuits
- 4.9 Save Circuits to Icon Menu

- 4.10 WBlock Circuits
- 4.11 Copy Circuit
- 4.12 Move Circuit
- 4.13 Circuit Clipboard
- 4.14 Circuit Builder

Chapter 5: Editing Commands

- 5.1 Edit Component
- 5.2 Updating Drawings
- 5.3 Scoot
- 5.4 Move Component
- 5.5 Copy Component
- 5.6 Align
- 5.7 Delete Component
- 5.8 Surfer Command
- 5.9 Copy Catalog Assignment
- 5.10 Copy Installation/Location Code Values
- 5.11 Attribute Editing Commands

Chapter 6: Panel Drawings

- 6.1 Insert Footprint (Icon Menu)
- 6.2 Insert Footprint (Schematic List)
- 6.3 Insert Component (Panel List)
- 6.4 Edit Footprint
- 6.5 Assign Item Numbers
- 6.6 Add Balloons

Chapter 7: Terminals

- 7.1 Insert Terminal Symbols
- 7.2 Multiple Level Terminals
- 7.3 Multiple Insert Component Command
- 7.4 Insert Jumpers
- 7.5 Terminal Strip Editor
- 7.6 DIN Rail Command

Chapter 8: PLC Symbols

- 8.1 Insert PLC (Parametric)
- 8.2 Insert PLC (Full Units)
- 8.3 Insert Individual PLC I/O Points
- 8.4 PLC Based Tagging
- 8.5 Spreadsheet to PLC I/O Utility

Chapter 9: Point-to-Point Wiring Drawings

- 9.1 Insert Connectors
- 9.2 Edit Connectors
- 9.3 Insert Splices
- 9.4 Insert Multiple Wires
- 9.5 Bend Wires

Chapter 10: Symbol Creation

- 10.1 Schematic Symbols
- 10.2 Naming Convention
- 10.3 Icon Menu Wizard
- 10.4 AutoCAD Electrical Databases
- 10.5 Project Database
- 10.6 Catalog Database
- 10.7 Footprint Lookup Database
- 10.8 PLC Database

Chapter 11: Titleblocks

- 11.1 Update Titleblocks
- 11.2 Titleblock Setup

Chapter 12: Reporting Tools

- 12.1 Create Reports
- 12.2 Configure Report Templates
- 12.3 Running Automatic Reports
- 12.4 Electrical Audit

Chapter 13: Settings and Templates

- 13.1 Project Properties
- 13.2 Drawing Properties
- 13.3 Panel Drawing Configuration
- 13.4 Template Files
- 13.5 Sharing Symbol Libraries and Databases

Chapter 14: Drawing Update Tools

- 14.1 Project-Wide Update/Retag
- 14.2 Project-Wide Utilities
- 14.3 Plot Project
- 14.4 Export to Spreadsheet
- 14.5 Update from Spreadsheet

- 14.6 Copy Project
- 14.7 Swap/Update Block
- 14.8 Mark/Verify Drawings

Appendix A: Skills Assessment