

AutoCAD Electrical Fundamentals is an introductory course that enables students to create electrical 2D drawings using AutoCAD Electrical. This course covers commands necessary in day-to-day work for creating, editing, annotating, exporting, and plotting drawings. Each topic covered is explained by the instructor and followed by exercises to reinforce the skills learned.

Prerequisites: Completed AutoCAD Fundamentals course or 1 year of AutoCAD production experience.

Getting Started with AutoCAD Electrical

Interface, Working Environment, Drawings, Components, Wires and Design Methodology

Projects

Project Manager Interface, Accessing Project Files

Schematics - Single Wire/Components

References, Ladders and Rungs, Setup, Insert and Edit Wires, Wire Numbers, Source & Destination Arrows, Parent/Child Components and Inserting Components

Schematics – Multi Wire and Circuits

Dashed Link Lines, 3-Phase Ladders, Components, and Wire Numbering, Multi Wire Bus, Cable Markers, Fan In/Out, and Circuit Modify Tools

Editing Components and Drawings

Move, Copy, Align, and Delete, Surfer Command, Copy Catalog Assignment and installation/Location Code Values, and Attribute Editing

Panel Drawings

Insert and Edit Footprints and Components, Assign Item Numbers, and Balloons

Terminals

Insert Terminals, Jumpers, and DIN Rail Command

PLC Symbols

Insert PLC, Tagging, and Spreadsheet to PLC I/O Utility

Point-to-Point Wiring Drawings

Insert and Edit Connectors, Splices and Multiple Wires

Symbol Creation

Schematic Symbols, Naming Conventions, Electrical Databases, Project Database, and Catalog Database

TitleBlocks

Update and Setup Titleblocks

Reporting Tools

Create Reports, Configure Report Templates, Running Automatic Reports, and Electrical Audit

Templates and Settings

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

Drawing Update Tools

Project-Wide Update/Retag and Utilities, Plotting, Update & Export Spreadsheet, Copy Project, and Mark/Verify Drawings

What students are saying about our courses:

“I loved how the instructor focused the materials to our needs and uses. Great course!”
- *Matthew Crockett, Aquaterra Environmental Solutions*

“The instructor was very knowledgeable and ensured everyone grasped the concepts before moving on. He answered all questions even if they were outside the scope of the class. Great Job!”
- *Vern Howard, Honeywell FM&T*

* The suggested course duration is a guideline. Course topics and timeline may be modified by the Instructor based upon the knowledge and skill level of the course participants.