

AutoCAD Electrical



Overview

Course Length: 32 hours (*can be taken via flexible schedule in-center or remotely*)

Description: AutoCAD Electrical - The Complete Guide is designed to give you a solid understanding of AutoCAD Electrical features and capabilities. Every course is designed to use all learning styles from text, audio, video, interactivity, quizzes and practical “Let Me Try” examples.

You’ll follow a workflow-based approach that mirrors the development of projects in the real world, learning the steps to wire components together, editing Ladder Diagrams, working with connectors and circuits, using Wiring Diagrams, creating and editing Reports, and creating your own symbols to use in the drawings

Course Objectives/Topics

Introduction to AutoCAD Electrical

Getting Started
Interface Components
Invoking Commands
Saving the Work
Workspaces
Getting Help

Working with Projects and Drawings

Creating a New Project
Working with Drawings
Working with Project Drawings
Copying/Deleting a Project
Other Options in the Project Manager

Working with Wires

Inserting Wires into a Drawing
Modifying Wires
Wire Types
Wire Numbers
Inserting Wire Markers/Labels in a Drawing
Troubleshooting Wires

Creating Ladders

Inserting a New Ladder
Grid Labels

Schematic Components

Inserting Schematic Components
Inserting Components Using the Catalog Browser

Annotating & Editing the Symbols
Assigning Catalog Information and Editing the Catalog Database
Inserting Components from the Equipment List
Inserting Components from Panel Lists
Swapping and Updating Blocks

Schematic Editing

Changing Component Location
Updating Components
Auditing Drawings and Projects
Retagging Drawings
Using Tools for Editing Attributes

Connectors, Point-to-Point Wiring Diagrams, and Circuits

Inserting Connectors
Editing Connectors
Using Point-to-point Wiring Diagrams
Working with Circuits
Building a Circuit
Multiple Phase Circuits

Panel Layouts

Creating Panel Layouts
Annotating and Editing Footprints
Inserting Footprints
Setting the Panel Drawing Configuration
Adding Balloons to a Component
Item Numbers, Nameplates and DIN Rail

Schematic and Panel Reports

Generating Schematic Reports
Report Generator Dialog Box

Changing Report Formats

PLC Modules

Inserting Parametric PLC Modules
Inserting Nonparametric PLC Modules
Editing a PLC Module
Inserting Individual PLC IO Points
Creating and Modifying Parametric PLC Modules
Creating PLC I/O Wiring Diagrams

Terminals

Inserting Terminal Symbols
Adding and Modifying Associations
Selecting, Creating, Editing, and Inserting Terminal Strips
Terminal Tables
Resequencing Terminal Numbers

Settings, Configurations, Templates, and Plotting

Setting Project Properties
Setting Drawing Properties
Reference Files
Mapping the Title Block
Updating Title Block Settings
Creating Templates
Plotting the Project
Project Task List

Creating Symbols

Creating Symbols
Naming Convention of Symbols
Customizing the Icon Menu
Miscellaneous Tools

Practical practice and Projects

- Put what you learned to use. Put it all together with a final project of your choosing.

Prerequisites

- You don't need any previous experience with Autodesk Electrical to take this course.

Audience

- New users to Autodesk Electrical.

Please note that course material, content, structure and delivery methods are subject to change without notice.

<https://www.visible-edge.com/home/education-training/>