

AutoCAD MEP

Electrical Essentials

Course Description

This course provides comprehensive AutoCAD® MEP training on how to design, model, and make construction documents of electrical distribution systems used in commercial buildings. The hands-on exercises cover how to design and draw electrical lighting and power systems and how to turn them into quality construction documents using AutoCAD MEP. The course addresses both imperial and metric systems.

| | |
|-------------------------------------|-----|
| Suggested Course Duration: | 1 |
| Pages: | 242 |
| Trial CD: | Yes |
| Onscreen Exercises Included? | Yes |

Objectives

The primary objective of this course is to teach students the basic functions necessary for using AutoCAD MEP.

After completing this course, the student will be able to:

- Describe the electrical system design process and create a schematic diagram.
- Add devices and panels to an electrical system plan.
- Set system definitions, demand factors, and preferences, and use the Circuit Manager.
- Add electrical equipment, wiring, cable trays, and conduits to electrical drawings.
- Add labels and annotation symbols and create schedules.
- Publish electrical system layouts to Design Web Format™ (DWF™).

Who Should Attend

This course is designed for the new user of AutoCAD MEP.

Prerequisites

This course requires a working knowledge of a recent version of AutoCAD®, in addition to drafting, design, or engineering experience. It is also recommended that the student have a working knowledge of Microsoft® Windows® XP or Microsoft® Windows® 2000.

Course Outline

Using AutoCAD MEP to Design an Electrical Plan

- Designing an Electrical System
- Schematic Symbols and Lines
- Creating and Editing Ceiling Grids
- Adding and Modifying Devices and Panels

Managing Circuits

- Electrical System Definitions and Demand Factor Styles
- Using the Circuit Manager

Creating Electrical Plan and Reporting

- Adding Electrical Equipment
- Adding Wiring
- Adding Cable Trays and Conduits
- Using Circuit Analysis Tools

Annotating, Scheduling, and Publishing an Electrical Plan

- Annotating Electrical Drawings
- Scheduling
- Publishing an Electrical System Plan

Note: The suggested course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.



Autodesk and AutoCAD MEP are trademarks or registered trademarks of Autodesk, Inc., in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders.

Autodesk reserves the right to alter product offerings and specifications at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

© 2007 Autodesk, Inc. All rights reserved.