

The AutoCAD® Electrical: Fundamentals with IEC Standards student guide covers the indispensable core topics for working with the AutoCAD® Electrical software. In this student guide, students learn how to use many of the powerful electrical drawing creation tools in the AutoCAD Electrical software. Students create schematic drawings (ladder logic and point to point), panel drawings, and PLC-I/O circuits using automated commands for symbol insertion, component tagging, wire numbering, and drawing modification. In addition, students are introduced to methods of customizing AutoCAD Electrical symbols, circuits, and databases. Other topics covered include titleblock linking, reporting tools, templates, and project files.

Topics Covered

- Understanding project files.
- Creating and editing schematic and panel drawings.
- Working with PLC symbols.
- Creating custom symbols.

✓ **Prerequisites:**

Before taking this course, students need to have a good working knowledge of the AutoCAD® software and electrical terminology.

✓ **After completing this course, students will be able to:**

- Navigate the AutoCAD Electrical user interface.
- Use the fundamental features of AutoCAD Electrical.
- Build intelligent ladder diagrams and panel layouts.
- Create, view and edit the project settings and properties.
- Extract data from drawings into reports formatted to match users' standards.
- Insert and edit parametric PLC modules, non-parametric PLC modules and stand-alone PLC I/O points.

✓ **Who should attend:**

- This course is designed for new users of AutoCAD.

✓ **Please see page 2 for modular breakdown per day**

- Each day also includes practical exercises.

TRAINING PRICE:
R5 750,00 Excl VAT

COURSE DURATION:
3 Days

CPD POINTS:

COURSES OFFERED AT:

- Johannesburg • Pretoria • Witbank • Durban • Cape Town • Namibia

DETAILED COURSE OUTLINE

Day 1:

- **Basic WorkFlow**
 - Design Environment
 - Basic Workflow
- **Project Basics**
 - Project Manager
 - The Project Drawing List
 - Moving Through Projects
 - Activating and Copying Projects
- **Schematic Wiring**
 - Wiring and Ladders
 - Wire Numbers
 - Source and Destination Signal Arrows
 - Circuits

Day 2:

- **Schematic Editing**
 - Basic Utilities
 - Miscellaneous Tools
 - Resequence and Retag Drawings
 - Using the Auditing Tools
- **Schematic Components**
 - Inserting Schematic Symbols
 - Swapping and Updating Blocks
 - Inserting Schematic Components from Lists
- **Schematic Reports**
 - Panel Layouts
 - Creating Panel Layouts from Schematic Lists
 - Using the DIN Rail Utility
 - Panel Footprints

Day 3:

- **Settings and Configuration**
 - Creating Wire Types
 - Using Reference Files
 - Drawing Properties
 - Project Properties
- **Custom Components**
 - Schematic Symbols
 - Icon Menu System
 - Panel Footprints
- **Custom Data**
 - Managing Part Catalog Databases
 - Editing the Pin List Database
 - Updating Title Block Attributes