

**Autodesk**  
Authorized Training Center

Distribuidor autorizado

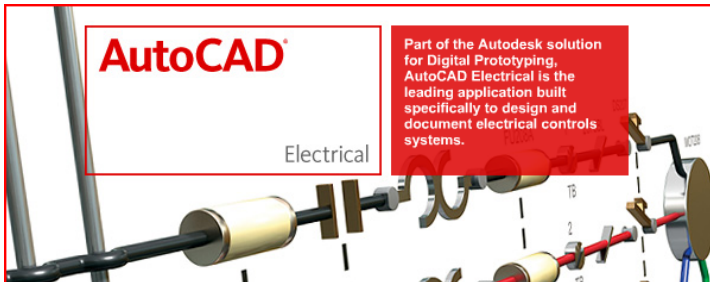
soluciones CAD/CAM/CAECd. Juárez, Chihuahua. Tels. (656)617-9665, 617-9848, 617-0889.

**Computec**  
Centro de Diseño y Entrenamiento

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Serie de Cursos:

# AutoCAD Electrical

Diseño y Documentación eléctrica

Objetivo General:

Esta secuencia de cursos está diseñado para usuarios de Autodesk AutoCAD Electrical **con el Objetivo de la optimización de diagramas eléctricos en AutoCAD , diagramas escalera, proyectos eléctricos, Generar diagramación de PLC I/O , panel de control de aparatos y uso de comando avanzados de documentación eléctrica.**

Niveles:

**Se ofrecen en 2 Niveles se recomienda tomarlos en secuencia**

Duración Total:

**32 Horas en 8 sesiones de 4 horas**

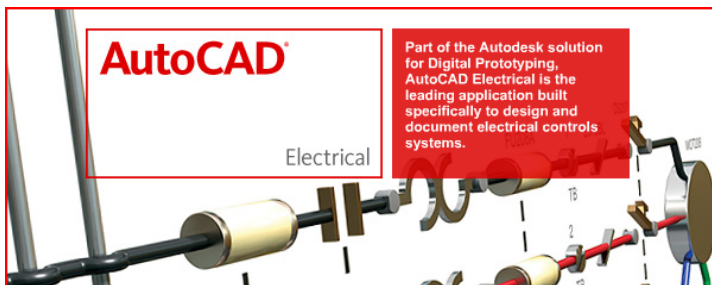


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**CAPACITACION  
EXCELENCIA  
MICROSOFT Y AUTODESK**

Cd. Juárez, Chih



Curso 1 de 2:

## AutoCAD Electrical Essential

Diseño y Documentación eléctrica

Objetivo Nivel:

El Objetivo es la optimización de diagramas eléctricos en AutoCAD , diagramas escalera, proyectos eléctricos, Generar diagramación de PLC I/O , panel de control de aparatos, etc.

Requisitos:

**AutoCAD Essentials ó experiencia recomendable**

**Duración de este nivel: 16 horas / 4 días de 4 horas**

Contenido :

### Module 1 - Schematic Drafting and Editing Tools

- User Interface
- Access an AutoCAD Electrical Project
- Create and Edit Control Circuit
- Create a Bill of Materials Report
- Design AutoCAD Electrical Template

### Module 2 - Project Drawing Sets

- Create an AutoCAD Electrical Project
- Activate an AutoCAD Electrical Project
- Modify the Project Drawing List
- Run Project-Wide Functions
- Run Project-Wide Reports

### Module 3 - Programmable Logic Controller (PLC)

- Select and Insert PLC Modules
- Create a new PLC card
- Select Module Appearance Style
- Build Module with Spacers and Breaks
- Use I/O Address-Based Tagging
- Generate PLC I/O Drawings >From Spreadsheet

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#### **Module 4 - Schematic Symbols and Parts Catalogs**

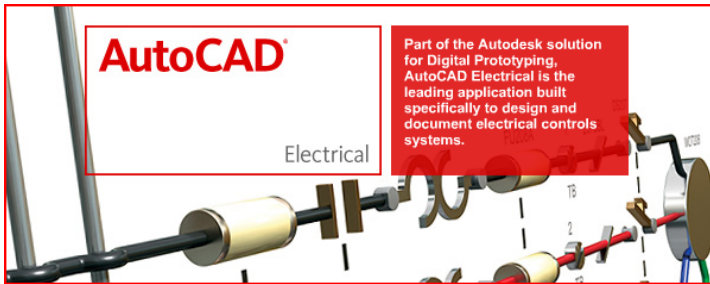
- Create an AutoCAD Electrical Symbol
- Customize the Icon Menu
- Assign a Library Set to a Project
- Modify and Expand the Parts Catalog Database

#### **Module 5 - Leveraging Schematic Intelligence**

- Extract AutoCAD Electrical Reports
- Customize Reports
- Export Report Data
- Modify Drawings from Spreadsheet
- Re-Sequence / Re-Tag Project

#### **Module 6 - Panel Layouts & Terminal Strip Editor**

- Insert Panel Symbols from Schematic Data
- Create an Exception Report Detailing Discrepancies
- Update Panel Layouts from Schematic Changes and Vice Versa
- Create a Panel Symbol
- Add Item Numbers and Balloons
- Add Wire Data to the Panel Layout



Curso 2 de 2:

# AutoCAD Electrical Advanced

Objetivo Nivel:

Conceptos avanzados que mejoran la productividad de documentación eléctrica

Requisitos:

Curso Nivel I ó experiencia equivalente

**Duración de este nivel: 16 horas / 4 días de 4 horas**

**Contenido Curso:**

## Review of AutoCAD Electrical Essentials and new concepts

### 1) Project Basics .

Creating New Projects / Project Drawing List / Drawing List /  
Project Batch Plotting / Moving Through Projects  
Managing Projects. / Copying Projects

### 2) Schematic Wiring

Inserting Wires / Layer Assignments / Trimming Wires  
Point-to-Point Wiring / Using Point-to-Point Wiring  
Add Wire Numbers / Source and Destination Signals .

### 3) Schematic Components

Inserting Schematic Symbols / Selecting Existing Catalog Part Numbers  
Creating Parent-Child Relationships / About Equipment, Panel, and  
Catalog / Connectors / Inserting Connectors / Editing Connectors add  
Connectors / Terminals, Multiple Level Terminals and Jumpers

## Advanced concepts on AutoCAD Electrical

### 4) Auditing

Using the Auditing Tools / Using Electrical Audit / Using Drawing Audit  
Updating and Retagging Drawings/ Changing Drawing Sequence

### 5) Schematic Reports

Creating Schematic Report / Using the Report Generator /Changing Report Formats / Placing Reports in Drawings /Saving Reports to Files.

**6) Panel Layouts**

Creating Panel Layouts / Inserting Panel Footprints from a Schematic List/  
Assigning Footprint Blocks / Inserting Panel Footprints Using the Panel Icon  
Menu / About

**7) DIN Rail Tool**

Inserting DIN Rails

**8) Terminal Strip Editor**

Terminal Strip Editor / Editing Tools /Preview and Insertion

**9) Panel Layout Annotation and Reports**

Panel Drawing Configuration / Footprint Layer Configuration /Configuring  
Balloons /Assigning Item Numbers and Inserting Balloons /Creating Panel  
Reports

**10)Settings**

Creating Wire Types / Renaming User Columns/ Changing, Converting, and  
Setting Wire Types

Using Component Reference Files/ Project Description Line Labels

**11)Drawing Properties**

Components / Wire Numbers Cross-References / Styles / Drawing Format  
Create a Drawing Template / Installation and Search

**12) Custom Components**

Custom Schematic Symbols / Symbol Data Attributes / Attribute Templates  
Creating Symbols Using the Symbol Builder Tool / Create a Custom Symbol/  
Icon Menu System / Selecting Icon Menus / Icon Menu Wizard /

**13) Panel Footprints**

Panel Footprint Database Files

**14) Custom Data.**

Managing Part Catalog Databases / Catalog Structure /. Map to a Title Block . .

**15) Automation Tools**

Updating Schematics from Spreadsheets / Exporting Data to Spreadsheets. . . .

**16) PLC Modules**

Parametric PLC Module Structure/ Inserting and Breaking Parametric PLC /  
Inserting Nonparametric PLC Modules / Using the PLC Database File Editor  
Using the Spreadsheet to PLC I/O Utility /

**17) Advanced Tools**

Adding Wire Data to Footprints / Managing Cables / Cable Markers