



**Duration** 2 Days

**Prerequisites:**

- SolidWorks Essentials

**Course Outline**

The goal of this course is to teach you how to use SolidWorks Electrical to optimize your drawings and designs for manufacturability so you can maximize quality, avoid rework and decrease time to market. This course is focused on 2D Schematic Design.

The main topics covered include:

**Lesson 1: Projects**

- SolidWorks Electrical
- Stages in the Process
- Starting SolidWorks Electrical
- What are Projects?
- Creating a New Project
- Project Overview
- Locations
- Zooming and Scrolling

**Lesson 2: Mixed Scheme**

- What is a Mixed scheme?
- Stages in the Process
- Existing and Archived Projects
- Line Diagram Symbols
- Adding Cables
- Drawing Tools

**Lesson 3: Developing a Scheme**

- What is a Schematic?
- Stages in the Process
- Draw Multiple Wires
- Schematic Symbols
- Manufacturers parts
- Symbol Properties
- Creating New Symbols

**Lesson 4: Cabling**

- Stages in the Process
- Cables
- Detailed Cabling
- Adding Manufacturer Parts
- Terminal Strip
- Pin to Pin Connections
- Symbol association
- Copy and Paste

**Lesson 5: Macros**

- What are Macros?
- Stages in the Process
- Creating and Adding Macros
- Location Outlines

**Lesson 5: Macros (cont)**

- Stages in the Process
- Creating and Adding Macros
- Location Outlines

**Lesson 6: Control Drawings**

- Stages in the Process
- Drawing Single Wires
- Inserting Single Terminals
- Using Functions
- Function Outlines

**Lesson 7: Cross Referencing / Component Association**

- Associating symbols to a component
- Stages in the Process
- Cross-referencing symbols
- The Cross Reference List

**Lesson 8: Managing Origin-Destination Arrows**

- What are Origin-Destination Arrows?
- Stages in the Process
- Replacing Wires
- Origin-Destination Arrows

**Lesson 9: Programmable Logic Controllers**

- Stages in the Process
- Adding a New Scheme
- Adding a PLC Mark
- Inserting a PLC
- Exercise 9: Adding a PLC

**Lesson 10: Final Drawings Changes**

- Editing the PLC Drawing
- Stages in the Process
- Associate Cable Cores
- Adding a Part Manually
- Assigning a Part
- Wire Style Manager
- Numbering Wires
- Assigning Parts to Other Objects

Please do not hesitate to contact us for registration and further information

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