

SOLIDWORKS ELECTRICAL SCHEMATIC

Pre-Requisites: Familiarity with Windows

Daily Schedule: 8:30 a.m. - 4:30 p.m.

Length: 2.5 Days

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.

Introduction

- » Introduction
- » About This Course
- » Use of Color
- » More SOLIDWORKS Training Resources

Lesson 1: Project Templates

- » SOLIDWORKS Electrical
- » Stages in the Process.
- » Starting SOLIDWORKS Electrical
- » The User Interface
- » What are Projects?
- » Project Templates
- » Contents SOLIDWORKS
- » Project Configurations
- » How is a Project Structured?
- » Stages in the Process
- » Exercise 1: Creating a Template

Lesson 2: Modifying Project Templates

- » What are Environments?
- » Stages in the Process
- » Draw Multiple Wires
- » Exercise 2: Modifying a Template

Lesson 3: Drawing Types

- » What are Drawing Types?
- » Stages in the Process
- » Existing and Archived Projects
- » Line Diagram Symbols
- » Adding Cables
- » Stages in the Process
- » Symbols Panel
- » Schematic Symbols
- » Symbol Properties
- » Exercise 3: Drawing Types.

Lesson 4: Symbols and Components

- » What is a component?
- » Stages in the Process
- » Symbol Component Association
- » Exercise 4: Symbols and Components

Lesson 5: Manufacturers Parts

- » What are Manufacturers Parts?
- » Stages in the Process
- » Finding Manufacturer Parts
- » Exercise 5: Manufacturers Parts

Lesson 6: Wires and Equipotentials

- » Equipotentials and Wires
- » Stages in the Process
- » Wire Style Manager
- » Replacement Range
- » Equipotential Numbering Results
- » Wire Numbering Results



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- » Using Nodal Indicators
- » Exercise 6: Wires and Equipotentials

Lesson 7: Cabling

- » What is Cabling?
- »
- » Stages in the Process
- » Cables
- » Detailed Cabling
- » Terminal Strip
- » Pin to Pin Connections
- » Copy and Paste
- » Exercise 7: Cabling

Lesson 8: Symbol Creation

- » Symbols and Standards
- » Stages in the Process
- » Symbols Manager
- » Symbol Properties
- » Circuits, Terminals, Types
- » Multiple Attribute
- » Splitting Attribute Data
- » Add to Library
- » Copy, Paste Symbol
- » Exercise 8: Symbol Creation

Lesson 9: Macros

- » What are Macros?
- » Stages in the Process
- » Creating and Adding Macros
- » Exercise 9: Macros

Lesson 10: Cross Referencing

- » What is Cross Referencing?
- » Stages in the Process
- » Exercise 10: Cross Referencing

Lesson 11: Managing Origin-Destination Arrows

- » What are Origin-Destination Arrows?
- » Stages in the Process
- » Origin-Destination Arrows
- » Exercise 11: Origin-Destination Arrows

Lesson 12: Dynamic Programmable Logic Control

- » What is a PLC?
- » Stages in the Process
- » Adding a New Scheme
- » Adding a PLC Mark
- » Inserting a PLC
- » Editing a PLC
- » Exercise 12: Adding a PLC

Lesson 13: Automated Programmable Logic Control

- » How are PLCs Automated?
- » Stages in the Process
- » PLC Mark, Part
- » IO Manager
- » Exercise 13: Automated Programmable Logic Control

Lesson 14: Connectors

- » Connectors
- » Stages in the Process
- » Insert Connector
- » Connector Insertion
- » Exercise 14: Connectors

Lesson 15: 2D Cabinet Layouts

- » What are 2D Cabinet Layouts?
- » Stages in the Process
- » Exercise 15: 2D Cabinet Layouts

These courses are taught from the official course curriculum from SOLIDWORKS Corporation, with additional information from Graphics Systems instructors.



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Lesson 16: Design Rule Checks

- » What are Design Rule Checks?
- » Stages in the Process
- » Unconnected Pins
- » Equipotential Conflicts
- » Max. Terminal Wires
- » Duplicated Parent Symbols
- » Child Symbols without Parent
- » Empty Terminal Strip
- » Duplicated Terminals
- » Exercise 16: Design Rule Checks

Lesson 17: Reports

- » What are Reports?
- » Stages in the Process
- » Report Templates
- » Report Columns
- » Column Formula
- » SQL Query Column Variable
- » Sort and Break
- » Exercise 17: Reports

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