Course Outline

CADSPACE
3D CAD SOFTWARE

SolidWorks Electrical Schematics – 3 days

Description	The goal of this course is to teach you how to use SOLIDWORKS Electrical to optimise your drawings and designs for manufacturability so you can maximise quality, avoid rework and decrease time to market.
Prerequisites	SolidWorks Essentials & Electrical design experience

Introduction
About this course
Prerequisites
Basic knowledge of Electrical design and experience
Technical terminologies used

Lesson 1: Project Templates
What are Projects
Project Templates
Project Configurations
Project Structure
Creating Templates

Lesson 2: Modifying Project Templates
Environment
Macros
Multiple wires
Modifying Templates

Lesson 3: Drawing types
Types of Drawings
Opening existing Projects
Archiving Projects
Line Diagram symbols
Adding Cables

Lesson 4: Symbols and Components
What is a component
Component Identification
Component Symbol Identification
Symbol Component Association

Lesson 5: Manufacturer Parts
What are Manufacturer Parts
Searching Manufacturer Parts
Editing Parts
Modifying Parts

Lesson 6: Wires and Equipotentials
Equipotentials Wire styles
Wire Style Manager
Replacing Wires
Equipotential Numbering
Wire Numbering
Using Nodal Indicators

Lesson 7: Cabling
What is Cabling
How to create Cables
Detailed Cabling
Terminal Strips
Pin to Pin Connections
Copy and Paste Wires

Lesson 8: Symbol Creation
Symbols and Standards
Symbol Creation
Symbols Manager
Symbol Properties
Circuits, Terminals, Types
Circuit Transmission
Circuit Point Insertion
Multiple Attribute
Splitting Attribute Data
Add to Library
Copy and Paste Symbol

Lesson 9: Macros
What are Macros in SOLIDWORKS Electrical Schematics
Creating Macros
Adding Macros
Project Macros
Paste Special

Lesson 10: Cross Referencing
What is Cross References
Cross Reference List
Cross Reference State Colours
Cross Reference Text Coding
Cross Reference Types
Same level Cross Reference
Cross Reference Location listing

Lesson 11: Managing Origin-Destination Arrows
What are Origin-Destination arrows
How to create Origin-Destination arrows
Interpreting the Arrow Text

Lesson 12: Dynamic Programmable Logic Control
What is a PLC
Dynamic Insertion
Adding a new Scheme
Adding a PLC Mark
Inserting a PLC
PLC Configurations
PLC Configuration Options
Editing wires
Editing a PLC

Lesson 13: Automated Programmable Logic Control
How are PLC's Automated
PLC Mark, Part
Manufacturer Data
IO Manager

Lesson 14: Connectors
Connectors
Insert Connectors
Connecter Insertion

Lesson 15: 2D Cabinet Layouts
What are 2D Cabinet Layouts
Creating a 2D Layout
Inserting Ducts and Rails
Inserting Components
Wire Cabling Order
Optimize Wire Cable Order

Lesson 16: Design Rule Checks
What are Design Rule Checks
Unconnected Pins
Equipotential Conflicts
Max Terminal Wires
Duplicate Parent Symbols
Child Symbols without Parents
Empty Terminal Strip
Duplicated Terminals

Lesson 17: Reports
What are Reports
Bill Of Materials Grouped by Manufacturer
List of Wires by Line Style
List of Cables Grouped by Reference
Drawing List
Report Templates
Report Columns
Column Formula
SQL Query Column Variable
Sort and Break

Lesson 17: Simple Reports
What are Views
Creating Simple Reports

To Book call: 1300 SWX CAD (1300 799 223)

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