

SOLIDWORKS PCB Essentials – 4 days

Description	The goal of this course is to teach you the core tools and features required for the development and realisation of a basic PCB Project.
Prerequisites	SolidWorks Essentials – SolidWorks Electrical experience – Electrical Design experience

<p>Introduction About this course Prerequisites Basic knowledge of Electrical design and experience Technical terminologies used</p> <p>Lesson 1: SOLIDWORKS PCB Basics and the User Interface Application Collaboration SOLIDWORKS PCB Connector Signing-in to PCB Services SOLIDWORKS PCB Environment Ribbon Menu System Quick Access Bar Start Page User Interface Elements System Preferences</p> <p>Lesson 2: Working with PCB Design Projects Understanding Projects PCB Project Documents Creating Projects Creating Project Documents Project Document Types Creating a New Document Adding Libraries Basic Project Management Tasks Saving and Committing a Project Transferring or Archiving a Design Deleting a Project</p> <p>Lesson 3: Creating Schematic Templates Understanding Templates Creating One Template from Another Inserting a Company Logo Setting Document Text Parameters Setting Template Project Parameters</p> <p>Lesson 4: Configuring the Schematic Preferences Optimizing Wires and Buses Breaking Wires at Autojunctions Displaying Cross-Overs Auto Panning</p> <p>Lesson 5: Creating Symbols Creating New Symbols Using the Symbol Wizard</p> <p>Lesson 6: Populating Schematics Using Symbol Placement Shortcuts Placing Library Components Placing Parts Inserting Power Ports Applying Supplier Links</p>	<p>Lesson 7: Creating Schematic Connections Wiring Placement Modes Placing Wire Connections Wire Guides Breaking Wires Overlaying Components Creating Buses Using Net Labels Physical versus Logical Connections</p> <p>Lesson 8: Using Schematic Annotations Processing Order Processing Location Matching Options Proposed Change List Engineering Change Order</p> <p>Lesson 9: Compiling and Verification Setting Design Violations Compiling and Realizing the Results Resolving Error Violations and Warnings Set Violations Compile and Resolve Errors</p> <p>Lesson 10: Collaborating with SOLIDWORKS Creating a PCB Board in SOLIDWORKS Pushing a Board to SOLIDWORKS PCB Creating a PCB Board in SOLIDWORKS PCB Pushing a PCB Board to SOLIDWORKS SOLIDWORKS to SOLIDWORKS PCB SOLIDWORKS PCB to SOLIDWORKS</p> <p>Lesson 11: Configuring Layers and PCB Stacks Configuring PCB View Configurations Defining the Board Layer Stack Layer Stack Manager Presets and Existing Boards Stack up Styles Drill Pairs Checking the Board Thickness in SOLIDWORKS Searching Projects Configure Layer View Create Multi-Layer Board Stack</p> <p>Lesson 12: Designing Rigid-Flex PCBs Using the Rigid-Flex Approach for Designing PCBs Understanding the Collaboration Workflow of Rigid-Flex PCBs Repositioning Components on a Rigid-Flex Board Create a Rigid-Flex PCB</p>	<p>Lesson 13: Configuring the Outline, Cutouts and Keepouts Redefining the Board Shapes Applying Cutouts Creating Cutout Patterns Applying Keepouts Defining PCB Placement Constraints in SOLIDWORKS Create a Height Barrier in SOLIDWORKS</p> <p>Lesson 14: Configuring Origin and Grids Setting an Origin Creating a Cartesian Grid Creating a Polar Grid Set the Origin Create a Grid</p> <p>Lesson 15: Transferring Design Data Linking Components Updating Schematics Updating the PCB Layout Inserting PCB Footprint</p> <p>Lesson 16: Creating Footprints Creating New Footprint Using the IPC Footprint Wizard</p> <p>Lesson 17: Placing Footprints Positioning Footprints Repositioning Footprints in SOLIDWORKS Position Board Components Reposition Components in SOLIDWORKS</p> <p>Lesson 18: Using Design Rule Checks Modifying the Existing Rules Creating New Rules Modifying Design Rules</p> <p>Lesson 19: Routing Interactive Routing Preferences Inactive Routing Nets Quick Routing Adding Vias Multi-Trace Routing Autorouting Adjusting the Tracks to Fix Errors</p>
--	--	---

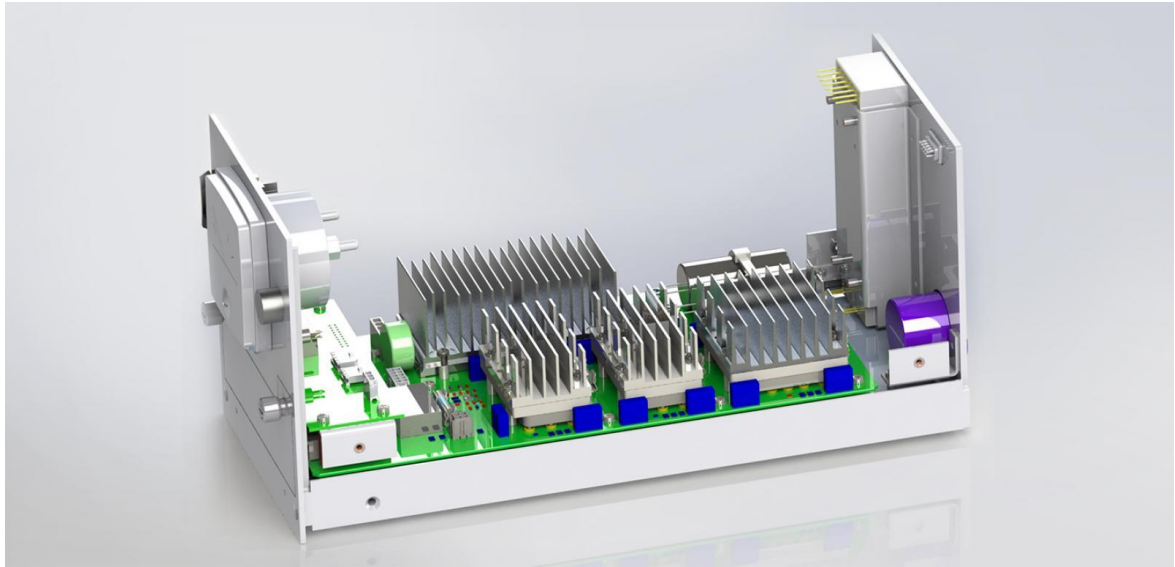
To Book call: 1300 SWX CAD (1300 799 223)



Course Outline



<p>Lesson 20: Defining Polygon Setting Polygon Pour Parameters Defining Polygon Pours Nets</p>	<p>Lesson 21: Inspection - Global Edition Finding Similar Objects Modifying Multiple Objects</p>	<p>Lesson 22: Outputting Data Configuring Output Files Generating Manufacturing Output</p>
---	---	---



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

